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The United Kingdom (UK) has left the European Union (EU) officially on 31/01/2020, however the classification and labelling regime is still based on the existing EU regulatory regime during a transition period to provide continuity for businesses. Therefore this document is still aligned on EU standards to ensure the safe use of the substance. It will be updated as the UK publishes new classification and labelling regulation diverging from the legal framework currently applied.

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name AUGEO® CLEAN MULTI

- Chemical name Racemic mixture (+/-)-2,2-dimethyl-4-hydroxymethyl-1,3-dioxolane

CAS-No. 100-79-

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

# Uses of the Substance/Mixture

- Cleaning agent
- Waxes
- Stain removers and waxes removers
- Glass cleaner
- diluent and vehicle for fragrances

#### 1.3 Details of the supplier of the safety data sheet

#### **Company**

RHODIA Opérations 52 Rue de la Haie Coq 93306 Aubervilliers Cedex - France Tel: +33 (0)1.53.56.50.00

Solvay Solutions UK Limited P.O.Box 80 Trinity Street Oldbury West Midlands B69 4LN England Telephone:+44 (0)121 552 3333 Fax: +44 (0)121 541 3235

# E-mail address

manager.sds@solvay.com

# 1.4 Emergency telephone number

+44(0)1235 239 670 [CareChem 24]

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# Classification (Regulation (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

2.2 Label elements

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#### Regulation (EC) No 1272/2008

# **Pictogram**



#### Signal word

Warning

#### **Hazard statements**

- H319 Causes serious eye irritation.

#### **Precautionary statements**

**Prevention** 

P264 Wash skin thoroughly after handling.
 P280 Wear eye protection/ face protection.

Response

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

- P337 + P313 If eye irritation persists: Get medical advice/ attention.

#### 2.3 Other hazards which do not result in classification

None known.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substance

- Chemical name Racemic mixture (+/-)-2,2-dimethyl-4-hydroxymethyl-1,3-dioxolane - Synonyms (+/-)-2,2-dimethyl-1,3-dioxolane-4-methanol, Isopropylidene glycerol

Formula C6H12O3

### Information on Components and Impurities

Chemical name	Identification number	Classification Regulation (EC) No 1272/2008	Concentrati on [%]
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	CAS-No.: 100-79-8 EINECS-No.: 202-888-7	Eye irritation, Category 2; H319	>= 99 - <= 100
	self classification		

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 3.2 Mixture

Not applicable, this product is a substance.

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General advice**

- First aider needs to protect himself.
- Show this safety data sheet to the doctor in attendance.
- Place affected clothing in a sealed bag for subsequent decontamination.
- When symptoms persist or in all cases of doubt seek medical advice.

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# In case of inhalation

- Move to fresh air.
- Keep at rest.
- Consult a physician if necessary.

#### In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with soap and plenty of water.
- Use a mild soap if available.
- If skin irritation occurs, seek medical advice/attention.

#### In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Immediate medical attention is required.

# In case of ingestion

- Do not induce vomiting without medical advice.
- Rinse mouth with water.
- Do not give anything to drink.
- Keep at rest.
- Consult a physician if necessary.

# 4.2 Most important symptoms and effects, both acute and delayed

- no data available

# 4.3 Indication of any immediate medical attention and special treatment needed

- no data available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media

- Extinguishing media small fires
- Water spray
- Multi-purpose powders
- Carbon dioxide (CO2)
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)
- Extinguishing media large fires
- Water spray
- Multi-purpose powders
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)

# Unsuitable extinguishing media

- Do not use a solid water stream as it may scatter and spread fire.

# 5.2 Special hazards arising from the substance or mixture

- Combustible liquid.
- The pressure in sealed containers can increase under the influence of heat.
- Hazardous decomposition products formed under fire conditions.
- High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished.

#### 5.3 Advice for firefighters

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#### Special protective equipment for firefighters

- Wear full protective clothing and self-contained breathing apparatus.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

# Specific fire fighting methods

- Stay upwind.
- Fight fire with normal precautions from a reasonable distance.
- Do not use a solid water stream as it may scatter and spread fire.
- Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Further information**

- Evacuate personnel to safe areas.
- Intervention only by capable personnel who are trained and aware of the hazards of the product.
- Never approach containers which have been exposed to fire, without cooling them sufficiently.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Avoid inhalation, ingestion and contact with skin and eyes.
- Wear chemical resistant personal protective equipment
- Wear suitable gloves.
- Wear suitable protective clothing.
- Wear as appropriate:
- Face-shield
- Tightly fitting safety goggles
- In the case of dust or aerosol formation use respirator with an approved filter.
- In the case of vapour formation use a respirator with an approved filter.
- Eliminate all ignition sources if safe to do so.
- Stop leak if safe to do so.
- For further information refer to section 8 "Exposure controls/personal protection".

# 6.2 Environmental precautions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.

# 6.3 Methods and materials for containment and cleaning up

- No sparking tools should be used.
- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

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- Shovel or sweep up.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.
- Wash non-recoverable remainder with large amounts of water.
- Clean contaminated surface thoroughly.
- Recover the cleaning water for subsequent disposal.
- Decontaminate tools, equipment and personal protective equipment in a segregated area.
- Dispose of in accordance with local regulations.

#### **Additional advice**

- Material can create slippery conditions.

#### 6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

- Provide adequate ventilation.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Provide adequate ventilation.
- Handle in accordance with good industrial hygiene and safety practice.
- Wear personal protective equipment.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Ensure all equipment is electrically grounded before beginning transfer operations.
- Handle in accordance with good industrial hygiene and safety practice.
- Wear personal protective equipment.
- Wear suitable protective clothing.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Avoid splashes.
- Avoid formation of aerosol.
- For personal protection see section 8.

# **Hygiene measures**

- Handle in accordance with good industrial hygiene and safety practice.
- Use clean, well-maintained personal protection equipment.
- Regular cleaning of equipment, work area and clothing.
- When using do not eat, drink or smoke.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands before breaks and immediately after handling the product.
- Contaminated work clothing should not be allowed out of the workplace.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

#### 7.2 Conditions for safe storage, including any incompatibilities

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#### **Technical measures/Storage conditions**

- The floor of the depot should be impermeable and designed to form a water-tight basin.
- Keep only in the original container.
- Note: To ensure the product's validity period, it is recommended to inert with nitrogen (N2) in storage.
- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Keep locked up or in an area accessible only to qualified or authorised persons.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer
- Keep away from: Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: Stability-Reactivity).

#### Packaging material

#### Suitable material

- Unlined steel
- Polyethylene terephthalate (PET)
- Plastic container of HDPE
- Polyethylene terephthalate (PET)

#### Requirements for storage rooms and vessels

- Protect from frost, heat and sunlight.

# 7.3 Specific end use(s)

- no data available

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

- Contains no substances with occupational exposure limit values above their regulatory reporting threshold.

# Predicted No Effect Concentration ( PNEC )

Product name	Compartment	Value	Remarks
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	Oral (secondary poisoning)		No PNEC derivation as there is no potential for bioaccumulation.

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#### 8.2 Exposure controls

#### **Control measures**

#### **Engineering measures**

- Ensure adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.
- Effective exhaust ventilation system
- Ensure adequate ventilation.
- Extract at emission point.
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Avoid splashes.
- Avoid formation of aerosol.

#### **Individual protection measures**

#### Respiratory protection

- This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
- Use a respirator with an approved filter if a risk assessment indicates this is necessary.

#### Hand protection

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

### Eye protection

- Tightly fitting safety goggles
- Face-shield

# Skin and body protection

- Full protective suit
- Footwear protecting against chemicals
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Use clean, well-maintained personal protection equipment.
- Regular cleaning of equipment, work area and clothing.
- When using do not eat, drink or smoke.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands before breaks and immediately after handling the product.
- Contaminated work clothing should not be allowed out of the workplace.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

#### **Protective measures**

- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.

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- The protective equipment must be selected in accordance with current CEN standards and in cooperation with the supplier of the protective equipment.

#### **Environmental exposure controls**

- Dam up.
- Prevent product from entering sewage system.
- Try to prevent the material from entering drains or water courses.
- Local authorities should be advised if significant spillages cannot be contained.
- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

<u>Physical state</u> liquid

<u>Colour</u> colourless

<u>Odour</u> slight

Odour Threshold No data available

Melting point/freezing point Freezing point: -99 °C

<u>Initial boiling point and boiling range</u> <u>Boiling point/boiling range</u>: 183 - 191 °C (1,013.25 hPa)

Flammability (solid, gas) No data available

Flammability (liquids) No data available

Flammability/Explosive limit No data available

Flash point 91 °C closed cup

100 °C open cup

<u>Auto-ignition temperature</u> No data available

**Decomposition temperature** No data available

<u>pH</u> Not applicable

<u>Viscosity</u>, <u>dynamic</u>: 11 mPa.s ( 20 °C)

<u>Solubility</u> Water solubility:

( 20 °C)completely soluble

Solubility in other solvents:

Alcohol: miscible

Esters: miscible

Ether: miscible

Aromatic hydrocarbons: miscible

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petroleum ether.: miscible

petrol: miscible

Partition coefficient: n-octanol/water No data available

Vapour pressure 0.05 hPa (20 °C)

**Density** 1.069 g/cm3 ( 20 °C)

Relative density 1.069 (20 °C)

Relative vapor density 2.6

Particle characteristics No data available

Evaporation rate (Butylacetate = 1) 0.027

9.2 Other information

Self-ignition 390 °C (1,013 hPa)

Method: EU Test Guideline A15

<u>Surface tension</u> 33.5 mN/m (  $20 \, ^{\circ}$ C)

Molecular weight 132.16 g/mol

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

- Stable at normal ambient temperature and pressure.

#### 10.2 Chemical stability

- Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.

# 10.4 Conditions to avoid

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid high temperatures.
- Avoid excessive heat for prolonged periods of time.

# 10.5 Incompatible materials

- Strong oxidizing agents
- Strong acids
- Strong reducing agents
- Strong bases

#### 10.6 Hazardous decomposition products

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#### Hazardous decomposition products

- On combustion or on thermal decomposition (pyrolysis) releases:
- (Carbon oxides (CO + CO2)).
- Acetic acid
- Ethanol
- On contact with acid releases:
- Acetone

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Acute oral toxicity

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

LD50: 7,000 mg/kg - Rat

Not classified as hazardous for acute oral toxicity according to GHS.

Published data

Acute inhalation toxicity

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

LC50 - 4 h (aerosol): > 5.11 mg/l - Rat, male and female

Method: OECD Test Guideline 403

Not classified as hazardous for acute inhalation toxicity according to GHS.

No mortality observed at this concentration.

Unpublished reports

Acute dermal toxicity

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

LD50: 2,000 mg/kg - Rat , male and female

Method: OECD Test Guideline 402

Not classified as hazardous for acute dermal toxicity according to GHS.

Semiocclusive

No mortality observed at this dose.

Unpublished reports

Acute toxicity (other routes of

administration)

No data available

Skin corrosion/irritation

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Rabbit

Rabbit

No skin irritation

Method: OECD Test Guideline 404

Semiocclusive Unpublished reports

Serious eye damage/eye irritation

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Causes serious eye irritation.

Method: OECD Test Guideline 405

Unpublished reports

Respiratory or skin sensitisation

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Ma

Maximisation Test - Guinea pig

Not classified as sensitising by skin contact according to GHS criteria

Method: OECD Test Guideline 406

Unpublished reports

**Mutagenicity** 

Genotoxicity in vitro

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2,2-dimethyl-1,3-dioxolan-4-ylmethanol Ames test

with and without metabolic activation

negative

Method: OECD Test Guideline 471

Unpublished reports

Gene mutation assays in mammalian cells.

Strain: mouse lymphoma cells with and without metabolic activation

negative

Method: OECD Test Guideline 490

Unpublished reports

Genotoxicity in vivo

2,2-dimethyl-1,3-dioxolan-4-ylmethanol In vivo micronucleus test - Mouse

male

Intraperitoneal route

Method: OECD Test Guideline 474

negative

Unpublished reports

<u>Carcinogenicity</u> No data available

#### **Toxicity for reproduction and development**

#### Toxicity to reproduction/Fertility

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Reproduction/developmental toxicity screening test - Rat, male and female, Oral

General Toxicity - Parent NOAEL: 1,000 mg/kg bw/day

Fertility NOEL: 1,000 mg/kg bw/day

General Toxicity F1 NOEL: 1,000 mg/kg bw/day

OECD Test Guideline 422

Gavage, Highest dose tested, no impairment of fertility has been observed,

Unpublished reports

**Developmental Toxicity/Teratogenicity** 

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Developmental Toxicity - Rat, male and female, Oral

General Toxicity Maternal NOAEL: 1,000 mg/kg bw/day

Developmental Toxicity NOAEL F1: 1,000 mg/kg bw/day

Method: OECD Test Guideline 414

Gavage, Highest dose tested, no teratogenic effects have been observed,

Unpublished reports

# <u>STOT</u>

STOT - single exposure

2,2-dimethyl-1,3-dioxolan-4-ylmethanol The substance or mixture is not classified as specific target organ toxicant, single

exposure according to GHS criteria.

internal evaluation

STOT - repeated exposure

2,2-dimethyl-1,3-dioxolan-4-ylmethanol The substance or mixture is not classified as specific target organ toxicant,

repeated exposure according to GHS criteria.

internal evaluation

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2,2-dimethyl-1,3-dioxolan-4-ylmethanol Oral 5 Weeks - Rat , male and female

NOAEL: 1000 mg/kg

Method: OECD Test Guideline 422

Gavage

Highest dose tested

No systemic toxicity observed.

Unpublished reports

Inhalation (aerosol) 90-day - Rat, male and female

NOAEC: > 5 mg/l

Method: OECD Test Guideline 413

Highest dose tested

No significant adverse effects were reported

Unpublished reports

Experience with human exposure No data available

Aspiration toxicity No data available

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### **Aquatic Compartment**

Acute toxicity to fish

2,2-dimethyl-1,3-dioxolan-4-ylmethanol LC50 - 96 h: 16,700 mg/l - Pimephales promelas (fathead minnow)

flow-through test Analytical monitoring: yes

Method: according to a standardised method Not harmful to fish (LC/LL50 > 100 mg/L)

Published data

#### Acute toxicity to daphnia and other aquatic invertebrates

2,2-dimethyl-1,3-dioxolan-4-ylmethanol EC50 - 48 h : > 96 mg/l - Daphnia magna (Water flea)

static test

Analytical monitoring: yes

Method: OECD Test Guideline 202

Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)

Highest concentration tested

Unpublished reports

Toxicity to aquatic plants

2,2-dimethyl-1,3-dioxolan-4-ylmethanol ErC50 - 72 h : > 92 mg/l - Pseudokirchneriella subcapitata (green algae)

static test

Analytical monitoring: yes End point: Growth rate

Method: OECD Test Guideline 201 Not harmful to algae (EC/EL50 > 100 mg/L)

Highest concentration tested

Unpublished reports

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NOEC - 72 h : 92 mg/l - Pseudokirchneriella subcapitata (green algae)

static test

Analytical monitoring: yes End point: Growth rate

Method: OECD Test Guideline 201

No adverse chronic effect observed up to and including the threshold of 1 mg/L.

Highest concentration tested

Unpublished reports

Toxicity to microorganisms

2,2-dimethyl-1,3-dioxolan-4-ylmethanol - 3

- 3 h: - activated sludge

static test

End point: Respiration inhibition

EC50: > 1,000 mg/l

EC10: > 1,000 mg/l

Analytical monitoring: no

Method: OECD Test Guideline 209

Unpublished reports

Chronic toxicity to fish No data available

Chronic toxicity to daphnia and other aquatic invertebrates

2,2-dimethyl-1,3-dioxolan-4-ylmethanol NOEC: 10 mg/l - 21 Days - Daphnia magna (Water flea)

semi-static test

Analytical monitoring: yes End point: Reproduction

Method: OECD Test Guideline 211

No adverse chronic effect observed up to and including the threshold of 1 mg/L.

Unpublished reports

**Terrestrial Compartment** 

Toxicity to soil dwelling organisms

2,2-dimethyl-1,3-dioxolan-4-ylmethanol NOEC: 250 mg/kg - 56 Days - Eisenia fetida (earthworms)

End point: Reproduction

Method: OECD Test Guideline 222

Unpublished reports

EC10: 1,250 mg/kg - 28 Days - soil micro-organisms

End point: Nitrogen transformation Method: OECD Test Guideline 216

Unpublished reports

12.2 Persistence and degradability

Abiotic degradation

Stability in water

2,2-dimethyl-1,3-dioxolan-4-ylmethanol DT50:

Hydrolysis pH: 4.0

Temperature of hydrolysis: 15 °C Hydrolysis time: 6.59 Days

Temperature of hydrolysis: 20 °C Hydrolysis time: 3.51 Days

Temperature of hydrolysis: 25 °C Hydrolysis time: 0.959 Days

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Method: OECD Test Guideline 111

Unpublished reports

Physical- and photo-chemical

No data available

<u>elimination</u>

**Biodegradation** 

Biodegradability

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Ready biodegradability study:

Method: OECD Test Guideline 301 D

4 % - 28 Days

The substance does not fulfill the criteria for ready biodegradability and ultimate

aerobic biodegradability
Theoretical oxygen demand
Inoculum: activated sludge
Unpublished reports

Inherent biodegradability study Method: OECD Test Guideline 302 B

25 % - 28 Days

The substance fulfills the criteria for inherent primary biodegradability

Dissolved organic carbon (DOC) Inoculum: activated sludge Unpublished internal reports

**Degradability assessment** 

2,2-dimethyl-1,3-dioxolan-4-ylmethanol The product is not considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

2,2-dimethyl-1,3-dioxolan-4-

ylmethanol

Due to the distribution coefficient n-octanol/water, accumulation in organisms is

not expected.

Bioconcentration factor (BCF) No data available

12.4 Mobility in soil

Adsorption potential (Koc)

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Adsorption/Soil Log Koc: < 1.25

Method: OECD Test Guideline 121

Highly mobile in soils Unpublished reports

Known distribution to environmental

compartments

No data available

12.5 Results of PBT and vPvB assessment

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

This substance is not considered to be persistent, bioaccumulating and toxic

(PBT).

This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

12.6 Other adverse effects

**Ecotoxicity assessment** 

Short-term (acute) aquatic hazard

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Not harmful to aquatic life (LC/LL50, EC/EL50 > 100 mg/L)

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#### Long-term (chronic) aquatic hazard

2,2-dimethyl-1,3-dioxolan-4-ylmethanol No adverse chronic effect observed up to and including the threshold of 1 mg/L.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product Disposal**

#### **Prohibition**

- Do not discharge directly into the environment.
- Dispose of in accordance with local regulations.

#### Advice on cleaning and disposal of packaging

#### **Prohibition**

- Do NOT dispose of untreated packaging with industrial waste.
- Do not dispose of with domestic refuse.
- Empty remaining contents.
- Clean using steam.
- Monitor the residual vapours.
- Dispose of rinse water in accordance with local and national regulations.
- Containers that cannot be cleaned must be treated as waste.
- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of in accordance with local regulations.
- Where possible recycling is preferred to disposal or incineration.
- The recycled material must be completely dry and free of pollutants.

# **SECTION 14: Transport information**

# ADN/ADNR

not regulated

#### <u>ADR</u>

not regulated

#### RID

not regulated

# <u>IMDG</u>

not regulated

# **IATA**

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous

Requirements of Annex XVII to Regulation (EC) 1907/2006 apply to this product. The precise list of restricted uses is available in the corresponding entry of this annex.

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substances, preparations and articles (Annex XVII)

Number on list: 3

Shall not be used in: - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, - tricks and jokes, - games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

# **Notification status**

Inventory Information	Status
United States TSCA Inventory	All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australian Inventory of Industrial Chemicals (AIIC)	<ul> <li>Listed on Inventory; we have not determined if this product contains substances with regulatory obligations and/or restrictions.</li> </ul>
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand.
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- When purchased from a Solvay legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.
Korea. Act on Registration and Evaluation of Chemicals	- When purchased from a Solvay legal entity based in Korea, this product is compliant with "Act on Registration and Evaluation of Chemicals" (AREC or K-REACH, Article 10) as all its components are either excluded, exempt, and/or (pre)registered. When purchased from a legal entity outside of Korea, please contact your local representative for additional information.

# 15.2 Chemical safety assessment

- A Chemical Safety Assessment has been carried out for this substance.

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#### **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

- H319: Causes serious eye irritation.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Instructions for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- GHS/CLP/SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

#### Not all acronyms listed above are referenced in this SDS.

#### **Further information**

- Distribute new edition to clients
- Update
- See section 1

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

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# 1. ES1: Formulation of biocidal products

#### 1.1. Scenario description

Main User Groups SU<sub>3</sub> Industrial uses: Uses of substances as such or in preparations at

industrial sites

Process category PROC8b Transfer of substance or mixture (charging/discharging) at

dedicated facilities

PROC3 Manufacture or formulation in the chemical industry in closed

batch processes with occasional controlled exposure or processes

with equivalent containment condition Mixing or blending in batch processes

PROC5

PROC15 Use as laboratory reagent

# 1.2. Conditions of use affecting exposure

# 1.2.1 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or mixture (charging/discharging) at dedicated facilities, Loading bulk raw material, < 8h, OC9 Outdoor

**Product characteristics** 

Covers the percentage of the substance in the product up to 100 % Concentration of the Substance in

Mixture/Article (unless stated differently).

Physical Form (at time of use) Liquid

Remarks Low vapour pressure

Frequency and duration of use

Duration of the activity : <= 8 h

# Other operational conditions affecting workers exposure

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Outdoor / Indoor : Outdoor Temperature : <= 40 °C

#### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing.

Assumes a good basic standard of occupational hygiene is implemented.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands.

Use suitable eye protection.

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of

a measure): 90 %)

1.2.2 Contributing scenario controlling worker exposure for: PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, < 8h, OC9 Outdoor

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : Liquid

Remarks : Low vapour pressure

Frequency and duration of use

Duration of the activity : <= 8 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor Temperature : <= 40 °C

Remarks : Use in closed process, With occasional controlled exposure.

# Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands.

Use suitable eye protection. General measures (eye irritants)

1.2.3 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation), < 8h, OC8 Indoor, CS110 without local exhaust ventilation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor
Temperature : Indoor
: <= 40 °C

Remarks : Use in closed process, With occasional controlled exposure.

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#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Use suitable eye protection.

# 1.2.4 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation), < 8h, OC8 Indoor, CS109 with local exhaust ventilation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor
Temperature : <= 40 °C

Remarks : Use in closed process, With occasional controlled exposure.

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

with local exhaust ventilation (for dermal), Dermal exposure (Effectiveness (of a measure): 90 %)

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Use suitable eye protection.

# 1.2.5 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, < 8h, OC8 Indoor

# **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : Liquid

Remarks : Low vapour pressure

Frequency and duration of use

Duration of the activity : <= 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

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Temperature : <= 40 °C

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour). with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 95 %) with local exhaust ventilation, Dermal exposure (Effectiveness (of a measure): 95 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing.

Assumes a good basic standard of occupational hygiene is implemented.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands.

Use suitable eye protection.

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 90 %)

# 1.2.6 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, < 8h, OC9 Outdoor

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : Liquid

Remarks : Low vapour pressure

Frequency and duration of use

Duration of the activity : <= 8 h

# Human factors not influenced by risk management

Dermal exposure : Two hands (960 cm2)

# Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor Temperature : <= 40 °C

#### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing.

Assumes a good basic standard of occupational hygiene is implemented.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands.

Use suitable eye protection.

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 90 %)

# 1.2.7 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

# **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid

Remarks : Low vapour pressure

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#### Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor Indoor <= 40 °C Temperature

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation (for dermal), Dermal exposure (Effectiveness (of a measure): 90 %)

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 90 %)

# 1.2.8 Contributing scenario controlling worker exposure for: PROC15 Use as laboratory reagent

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) liquid

Remarks Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor <= 40 °C Temperature

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %) with local exhaust ventilation, Dermal exposure (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 90 %)

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#### 1.3. Exposure estimation and reference to its source

#### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use. Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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# 2. ES2: Use into insect repellent products

2.1. Scenario description

Main User Groups : SU 21 Consumer uses: Private households (= general public =

consumers)

Product category : PC8 Biocidal products

2.2. Conditions of use affecting exposure

2.2.1 Contributing scenario controlling consumer exposure for: PC8 Biocidal products OC8 Indoor,

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

**Amount** 

Amount used per event : <= 10 g/event

Frequency and duration of use

Exposure duration : 0.01 h
Frequency of use : 5 events/day

Human factors not influenced by risk management

Dermal exposure : whole body

Other given operational conditions affecting consumers exposure

Outdoor / Indoor : Indoor

Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Assumes a good basic standard of occupational hygiene is

implemented.

Consumer Measures : General measures (eye irritants)

Consumer Measures : Avoid direct eye contact with product, also via contamination on

hands.

Consumer Measures : Avoid splashing.

2.2.2 Contributing scenario controlling consumer exposure for: PC8 Biocidal products OC9 Outdoor,

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

**Amount** 

Amount used per event : <= 10 g/event

Frequency and duration of use

Exposure duration : 0.01 h
Frequency of use : 5 events/day

Human factors not influenced by risk management

Dermal exposure : whole body

Other given operational conditions affecting consumers exposure

Outdoor / Indoor : Outdoor

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Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : Assumes a good basic standard of occupational hygiene is

implemented.

Consumer Measures : General measures (eye irritants)

Consumer Measures : Avoid direct eye contact with product, also via contamination on

hands.

Consumer Measures : Avoid splashing.

# 2.3. Exposure estimation and reference to its source

#### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 2.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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# 3. ES3: Formulation, On site

#### 3.1. Scenario description

Main User Groups : SU 3 Industrial uses: Uses of substances as such or in preparations at

industrial sites

Process category : **PROC3** Use in closed batch process (synthesis or formulation)

PROC8b Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at dedicated facilities

PROC15 Use as laboratory reagent

PROC5 Mixing or blending in batch processes for formulation of

preparations and articles (multistage and/ or significant contact)

#### 3.2. Conditions of use affecting exposure

# 3.2.1 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation), < 8h, OC8 Indoor

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process, With occasional controlled exposure.

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Use suitable eye protection.

# 3.2.2 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, < 8h

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : Liquid

Remarks : Low vapour pressure

Frequency and duration of use

Duration of the activity : <= 8 h

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#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor Temperature : <= 40 °C

#### Organisational measures to prevent /limit releases, dispersion and exposure

Avoid splashing.

Assumes a good basic standard of occupational hygiene is implemented.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands.

Use suitable eye protection.

General measures (eve irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of

a measure): 90 %)

# 3.2.3 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, <15 min, OC8 Indoor

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

# Other operational conditions affecting workers exposure

Outdoor / Indoor
Temperature : Indoor
: <= 40 °C

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 90 %)

#### 3.2.4 Contributing scenario controlling worker exposure for: PROC15 Use as laboratory reagent

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

#### Other operational conditions affecting workers exposure

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Outdoor / Indoor
Temperature : Indoor
: <= 40 °C

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 90 %)

# 3.2.5 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor
Temperature : Indoor
: <= 40 °C

### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 90 %)

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# 3.3. Exposure estimation and reference to its source

#### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method: Qualitative approach used to conclude safe use.

#### 3.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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# 4. ES4 : Formulation, Used for formulation of homecare products, Used for formulation of personal care products

4.1. Scenario description

Main User Groups : SU 3 Industrial uses: Uses of substances as such or in preparations at

industrial sites

Process category : **PROC1** Use in closed process, no likelihood of exposure

PROC14

PROC2 Use in closed, continuous process with occasional controlled

exposure

**PROC3** Use in closed batch process (synthesis or formulation)

PROC4 Use in batch and other process (synthesis) where opportunity for

exposure arises

PROC15 Use as laboratory reagent

PROC8b Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at dedicated facilities

PROC5 Mixing or blending in batch processes for formulation of

preparations and articles (multistage and/ or significant contact)
Production of preparations or articles by tabletting, compression,

extrusion, pelletisation

**PROC9** Transfer of substance or preparation into small containers

(dedicated filling line, including weighing)

PROC8a Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at non-dedicated facilities

### 4.2. Conditions of use affecting exposure

# 4.2.1 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, OC8 Indoor

# Product characteristics

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

# Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

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4.2.2 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure, PROC3 Use in closed batch process (synthesis or formulation), OC8 Indoor, <1 hr:, CS110 without local exhaust ventilation, Gloves

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

4.2.3 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises

Product characteristics

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

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#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 4.2.4 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation), <1 hr:, CS109 with local exhaust ventilation, Without gloves

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Risk of aerosols formation, Wear respiratory protection.

# 4.2.5 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation), <15 min

#### Product characteristics

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

# Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

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Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 4.2.6 Contributing scenario controlling worker exposure for: PROC15 Use as laboratory reagent

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 4.2.7 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 95 %)

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#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 4.2.8 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 4.2.9 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities

# **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

#### Other operational conditions affecting workers exposure

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Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour). with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 4.2.10 Contributing scenario controlling worker exposure for: PROC14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

# Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour). with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of

a measure): 80 %) Risk of aerosols formation, Wear respiratory protection.

# 4.2.11 Contributing scenario controlling worker exposure for: PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

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Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

4.2.12 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, CS39 Equipment cleaning and maintenance

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use

suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of

a measure): 80 %)

4.2.13 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, PROC2 Use in closed, continuous process with occasional controlled exposure, OC9 Outdoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

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Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Remarks : Use in closed process

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

#### 4.3. Exposure estimation and reference to its source

#### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method: Qualitative approach used to conclude safe use.

#### 4.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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## 5. ES5: Professional end-use of polishes and wax blends (IFRA GES 5)

#### 5.1. Scenario description

Main User Groups : SU 22 Professional uses: Public domain (administration, education,

entertainment, services, craftsmen)

Process category : **PROC10** Roller application or brushing

PROC11 Non industrial spraying

PROC8a Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at non-dedicated facilities

PROC2 Use in closed, continuous process with occasional controlled

exposure

#### 5.2. Conditions of use affecting exposure

#### 5.2.1 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, < 8h

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

### 5.2.2 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying

### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

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#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

## 5.2.3 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, maintenance products, Furniture care product, Leather care product, < 4h

#### Product characteristics

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 4 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

# 5.2.4 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, maintenance products, Leather care product, Without gloves, Without respiratory protection

### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

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#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

## 5.2.5 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

## 5.2.6 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, Gloves, Respiratory protection

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

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Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

Respirator, APF 10 (Effectiveness (of a measure): 90 %)

#### 5.3. Exposure estimation and reference to its source

#### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

### 5.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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## 6. ES6: Use in formulation, end-products

#### 6.1. Scenario description

Main User Groups : SU 3 Industrial uses: Uses of substances as such or in preparations at

industrial sites

Process category : PROC8b Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at dedicated facilities

PROC2 Use in closed, continuous process with occasional controlled

exposure

PROC15 Use as laboratory reagent

PROC1 Use in closed process, no likelihood of exposure
PROC3 Use in closed batch process (synthesis or formulation)
PROC5 Mixing or blending in batch processes for formulation of

preparations and articles (multistage and/ or significant contact)
Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at non-dedicated facilities

PROC9 Transfer of substance or preparation into small containers

C9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC14 Production of preparations or articles by tabletting, compression,

extrusion, pelletisation

### 6.2. Conditions of use affecting exposure

## 6.2.1 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, 5-25 %

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

PROC8a

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature :  $<= 40 \, ^{\circ}\text{C}$ 

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

## 6.2.2 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure

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**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

#### 6.2.3 Contributing scenario controlling worker exposure for: PROC15 Use as laboratory reagent, 5-25 %

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

#### 6.2.4 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid

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Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

## 6.2.5 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation)

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 4 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

## 6.2.6 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

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Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

## 6.2.7 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 4 h

### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

## Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

## 6.2.8 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

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Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

#### 6.2.9 Contributing scenario controlling worker exposure for: PROC15 Use as laboratory reagent, < 1%

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

6.2.10 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises, < 1%

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

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### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

## 6.2.11 Contributing scenario controlling worker exposure for: PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

## 6.2.12 Contributing scenario controlling worker exposure for: PROC14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

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### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Risk of aerosols formation, Wear respiratory protection.

#### 6.3. Exposure estimation and reference to its source

#### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method: Qualitative approach used to conclude safe use.

### 6.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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## 7. ES7: Industrial use, Use in formulation, Cosmetic products

7.1. Scenario description

Main User Groups : SU 3 Industrial uses: Uses of substances as such or in preparations at

industrial sites

Process category : PROC8b Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at dedicated facilities

PROC2 Use in closed, continuous process with occasional controlled

exposure

PROC15 Use as laboratory reagent

PROC1 Use in closed process, no likelihood of exposure
PROC3 Use in closed batch process (synthesis or formulation)
PROC5 Mixing or blending in batch processes for formulation of

preparations and articles (multistage and/ or significant contact)
Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at non-dedicated facilities

PROC9 Transfer of substance or preparation into small containers

(dedicated filling line, including weighing)

#### 7.2. Conditions of use affecting exposure

7.2.1 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact), 100 %

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

PROC8a

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

7.2.2 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure, 100 %

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

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Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

### 7.2.3 Contributing scenario controlling worker exposure for: PROC15 Use as laboratory reagent, 100 %

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

### 7.2.4 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

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Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

## 7.2.5 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation)

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

## 7.2.6 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

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### **AUGEO® CLEAN MULTI**

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Frequency and duration of use

Exposure duration : < 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

## 7.2.7 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 25 %.

Mixture/Article

Physical Form (at time of use) : liquid Process Temperature :  $<= 40 \, ^{\circ}\text{C}$ 

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 4 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

## 7.2.8 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

#### Frequency and duration of use

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#### **AUGEO® CLEAN MULTI**

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Exposure duration : < 15 min

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

#### 7.2.9 Contributing scenario controlling worker exposure for: PROC15 Use as laboratory reagent, 5-25 %

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

## 7.2.10 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, 5-25 %

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 25 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

#### Other operational conditions affecting workers exposure

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#### **AUGEO® CLEAN MULTI**

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Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

## 7.2.11 Contributing scenario controlling worker exposure for: PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 25 %.

Mixture/Article

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

#### 7.3. Exposure estimation and reference to its source

#### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method: Qualitative approach used to conclude safe use.

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### **AUGEO® CLEAN MULTI**

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### 7.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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### 8. ES8: Industrial use, end-products

#### 8.1. Scenario description

Main User Groups : SU 3 Industrial uses: Uses of substances as such or in preparations at

industrial sites

Process category : PROC8b Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at dedicated facilities

PROC2 Use in closed, continuous process with occasional controlled

exposure

PROC8a Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at non-dedicated facilities

PROC4 Use in batch and other process (synthesis) where opportunity for

exposure arises

PROC7 Industrial spraying

**PROC10** Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

#### 8.2. Conditions of use affecting exposure

## 8.2.1 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, CS110 without local exhaust ventilation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

## 8.2.2 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure, <15 min, CS109 with local exhaust ventilation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

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#### **AUGEO® CLEAN MULTI**

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Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

8.2.3 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure, <15 min, CS110 without local exhaust ventilation

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

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## 8.2.4 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, OC9 Outdoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

## 8.2.5 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises, OC9 Outdoor

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Remarks : Semi-closed system, With occasional controlled exposure.

## Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

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## 8.2.6 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, <1 hr:, CS110 without local exhaust ventilation

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

### 8.2.7 Contributing scenario controlling worker exposure for: PROC7 Industrial spraying, OC9 Outdoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

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#### 8.2.8 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, OC9 Outdoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoo

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

## 8.2.9 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises, OC8 Indoor, CS110 without local exhaust ventilation

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature :  $<= 40 \, ^{\circ}\text{C}$ 

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

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8.2.10 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, <15 min, CS110 without local exhaust ventilation

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

#### 8.2.11 Contributing scenario controlling worker exposure for: PROC7 Industrial spraying, Chain maintenance product

Product characteristics

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

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#### 8.2.12 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, OC8 Indoor, CS109 with local exhaust ventilation

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) liquid Process Temperature <= 40 °C

Remarks Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation (Effectiveness (of a measure): 90 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

#### 8.2.13 Contributing scenario controlling worker exposure for: PROC7 Industrial spraying, OC8 Indoor, <15 min, CS110 without local exhaust ventilation

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) liquid <= 40 °C Process Temperature

Remarks Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

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Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

Respirator, APF 10 (Effectiveness (of a measure): 90 %)

## 8.2.14 Contributing scenario controlling worker exposure for: PROC7 Industrial spraying, OC8 Indoor, <15 min, CS109 with local exhaust ventilation

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour) . with local exhaust ventilation (Effectiveness (of a measure): 95 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

## 8.2.15 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, OC8 Indoor, CS110 without local exhaust ventilation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

#### 8.2.16 Contributing scenario controlling worker exposure for: PROC7 Industrial spraying, general surface cleaning products

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) liquid Process Temperature <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

**Exposure duration** : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

Respirator, APF 10 (Effectiveness (of a measure): 90 %)

#### 8.2.17 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, <15 min, CS109 with local exhaust ventilation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) liquid <= 40 °C Process Temperature

Remarks Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

## Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour). with local exhaust ventilation (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

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Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

## 8.2.18 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, OC8 Indoor, CS109 with local exhaust ventilation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

## 8.2.19 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, CS109 with local exhaust ventilation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

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#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour) . with local exhaust ventilation (Effectiveness (of a measure): 95 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

## 8.2.20 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises, OC8 Indoor, CS109 with local exhaust ventilation

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

## Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

## 8.2.21 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure, < 8h

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

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Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

with local exhaust ventilation (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

#### 8.3. Exposure estimation and reference to its source

#### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 8.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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## 9. ES9: Professional use, end-products

9.1. Scenario description

Main User Groups : SU 22 Professional uses: Public domain (administration, education,

entertainment, services, craftsmen)

Process category : PROC8a Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at non-dedicated facilities

PROC11 Non industrial spraying Roller application or brushing

PROC8b Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at dedicated facilities

PROC2 Use in closed, continuous process with occasional controlled

exposure

**PROC13** Treatment of articles by dipping and pouring

PROC4 Use in batch and other process (synthesis) where opportunity for

exposure arises

#### 9.2. Conditions of use affecting exposure

9.2.1 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, <15 min, OC8 Indoor, CS110 without local exhaust ventilation, Gloves

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

9.2.2 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, PROC10 Roller application or brushing, PROC13 Treatment of articles by dipping and pouring, <1 hr:, OC8 Indoor, CS110 without local exhaust ventilation, Gloves

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**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

9.2.3 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, <15 min, OC8 Indoor, CS110 without local exhaust ventilation, Without gloves

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

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## 9.2.4 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying, <1 hr:, OC8 Indoor, Without gloves

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

## 9.2.5 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, < 8h, OC8 Indoor, Gloves

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

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#### 9.2.6 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

Product characteristics

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) liquid Process Temperature <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

**Exposure duration** : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor Indoor

Remarks Semi-closed system, With occasional controlled exposure.

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

### 9.2.7 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) liquid Process Temperature <= 40 °C

Remarks Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure Outdoor / Indoor

Indoor Remarks

Use in closed process

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

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Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

9.2.8 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact), < 8h, OC8 Indoor, Without gloves

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) liquid <= 40 °C Process Temperature

Remarks Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

9.2.9 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying, <15 min, OC8 Indoor, CS110 without local exhaust ventilation, Gloves

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) liquid Process Temperature <= 40 °C

Remarks Low vapour pressure

Frequency and duration of use

**Exposure duration** : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of

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a measure): 80 %)

#### 9.2.10 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, Kitchen cleaner

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

9.2.11 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, <1 hr:, OC8 Indoor, CS110 without local exhaust ventilation, Without gloves

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

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# 9.2.12 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying, <1 hr:, OC8 Indoor, Gloves

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 9.2.13 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, OC9 Outdoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

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# 9.2.14 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Remarks : Semi-closed system, With occasional controlled exposure.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of

a measure): 80 %)

### 9.2.15 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying, Gloves

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature :  $<= 40 \, ^{\circ}\text{C}$ 

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

### 9.2.16 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, OC9 Outdoor

# **Product characteristics**

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Concentration of the Substance in

Covers the percentage of the substance in the product up to 100 %

Mixture/Article

(unless stated differently).

Physical Form (at time of use)

liquid <= 40 °C

Process Temperature Remarks

: Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use

suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of

a measure): 80 %)

9.2.17 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, OC9 Outdoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use

suitable eve protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of

a measure): 80 %)

9.2.18 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

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Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

## Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

Respirator, APF 10 (Effectiveness (of a measure): 90 %)

9.2.19 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, <1 hr:, OC8 Indoor, CS109 with local exhaust ventilation

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

# Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation (Effectiveness (of a measure): 80 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

9.2.20 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

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Frequency and duration of use

Exposure duration : < 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation (Effectiveness (of a measure): 80 %)

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

9.2.21 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, <15 min, OC8 Indoor, CS109 with local exhaust ventilation

### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

# **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation (Effectiveness (of a measure): 80 %)

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

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# 9.2.22 Contributing scenario controlling worker exposure for: PROC13 Treatment of articles by dipping and pouring, medical devices

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 4 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

with local exhaust ventilation (Effectiveness (of a measure): 80 %)

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 9.2.23 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying, <15 min, OC8 Indoor, CS110 without local exhaust ventilation, Without gloves

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

**Technical conditions and measures** 

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

with local exhaust ventilation

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

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Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

# 9.3. Exposure estimation and reference to its source

### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe	All routes		
	use.			

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

# 9.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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# 10. ES10: Use at industrial site, Use in Cleaning Agents

10.1. Scenario description

Main User Groups : SU 3 Industrial uses: Uses of substances as such or in preparations at

industrial sites

Process category : **PROC1** Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled

exposure

**PROC3** Use in closed batch process (synthesis or formulation)

PROC4 Use in batch and other process (synthesis) where opportunity for

exposure arises

PROC7 Industrial spraying

PROC8a Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at non-dedicated facilities

PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

**PROC10** Roller application or brushing

**PROC13** Treatment of articles by dipping and pouring

# 10.2. Conditions of use affecting exposure

10.2.1 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, PROC2 Use in closed, continuous process with occasional controlled exposure, PROC3 Use in closed batch process (synthesis or formulation)

#### Product characteristics

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature :  $<= 40 \, ^{\circ}\text{C}$ 

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

# **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

10.2.2 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises, PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

#### **Product characteristics**

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Concentration of the Substance in

Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

### 10.2.3 Contributing scenario controlling worker exposure for: PROC7 Industrial spraying

### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

# Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Risk of aerosols formation, Wear respiratory protection.

10.2.4 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, PROC10 Roller application or brushing, PROC13 Treatment of articles by dipping and pouring

# **Product characteristics**

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Concentration of the Substance in

Mixture/Article

Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical Form (at time of use)

liquid

Process Temperature

<= 40 °C

Remarks

: Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

#### Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

# 10.3. Exposure estimation and reference to its source

## **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method: Qualitative approach used to conclude safe use.

# 10.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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# 11. ES11: Use at industrial site, Industrial use, Use as an intermediate

# 11.1. Scenario description

Main User Groups : SU 3 Industrial uses: Uses of substances as such or in preparations at

industrial sites

Process category : PROC1 Use in closed process, no likelihood of exposure

**PROC2** Use in closed, continuous process with occasional controlled

exposure

**PROC3** Use in closed batch process (synthesis or formulation)

PROC4 Use in batch and other process (synthesis) where opportunity for

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exposure arises

PROC8b Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at dedicated facilities

PROC15 Use as laboratory reagent

PROC8a Transfer of substance or preparation (charging/ discharging) from/

to vessels/ large containers at non-dedicated facilities

#### 11.2. Conditions of use affecting exposure

11.2.1 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, PROC2 Use in closed, continuous process with occasional controlled exposure, PROC3 Use in closed batch process (synthesis or formulation), General process exposures from enclosed processes, OC9 Outdoor

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature :  $<= 40 \, ^{\circ}\text{C}$ 

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Remarks : Use in closed process

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

# 11.2.2 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation), OC8 Indoor

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

#### Frequency and duration of use

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Exposure duration : < 1 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Use in closed process

#### **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

11.2.3 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises, PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, <1 hr:, OC8 Indoor

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

# **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

11.2.4 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises, PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, OC9 Outdoor

# **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

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Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Remarks : Semi-closed system, With occasional controlled exposure.

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

11.2.5 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, <15 min, OC8 Indoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature :  $<= 40 \, ^{\circ}\text{C}$ 

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

Remarks : Semi-closed system, With occasional controlled exposure.

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

11.2.6 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, <15 min, OC9 Outdoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 15 min

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# Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Remarks : Semi-closed system, With occasional controlled exposure.

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

### 11.2.7 Contributing scenario controlling worker exposure for: PROC15 Use as laboratory reagent

#### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

# **Technical conditions and measures**

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

# 11.2.8 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, OC8 Indoor

### **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

# Other operational conditions affecting workers exposure

Outdoor / Indoor : Indoor

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour) .

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# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

# 11.2.9 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, OC9 Outdoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid
Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 1 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

# Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

# 11.2.10 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, PROC2 Use in closed, continuous process with occasional controlled exposure, Storage, CS56 with sample collection, OC8 Indoor

# **Product characteristics**

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure
Outdoor / Indoor : Indoor

Remarks : Use in closed process

Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

# Organisational measures to prevent /limit releases, dispersion and exposure

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Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

11.2.11 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, PROC2 Use in closed, continuous process with occasional controlled exposure, Storage, CS56 with sample collection, OC9 Outdoor

**Product characteristics** 

Concentration of the Substance in Covers the percentage of the substance in the product up to 100 %

Mixture/Article (unless stated differently).

Physical Form (at time of use) : liquid Process Temperature : <= 40 °C

Remarks : Low vapour pressure

Frequency and duration of use

Exposure duration : < 8 h

Other operational conditions affecting workers exposure

Outdoor / Indoor : Outdoor

Remarks : Use in closed process

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

# 11.3. Exposure estimation and reference to its source

# **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PROC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

### 11.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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# 12. ES12: Consumers end-use of washing and cleaning products (IFRA GES 6)

# 12.1. Scenario description

Main User Groups **SU 21** Consumer uses: Private households (= general public =

consumers)

**PC35** Washing and cleaning products (including solvent based Product category

products)

### 12.2. Conditions of use affecting exposure

# 12.2.1 Contributing scenario controlling consumer exposure for: PC35 Washing and cleaning products (including solvent based products),

According to REACH regulation, there is no limit of concentration to use the product in all usages described in the exposure scenarios present in this document, once the safety assessment was done as a mandatory request for the Chemical Safety Report.

# Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures

: Assumes a good basic standard of occupational hygiene is implemented., General measures (eye irritants), Avoid direct eye contact with product, also via contamination on hands., Avoid

splashing.

#### 12.3. Exposure estimation and reference to its source

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# 13. ES13: Consumer end-use of air care products (IFRA GES 7)

13.1. Scenario description

Main User Groups : SU 21 Consumer uses: Private households (= general public =

consumers)

Product category : PC3 Air care products

13.2. Conditions of use affecting exposure

13.2.1 Contributing scenario controlling consumer exposure for: PC3 Air care products aerosol,

**Product characteristics** 

Physical Form (at time of use) : aerosol

**Amount** 

Covers concentrations up to .... : <= 0.25 % Amount per Application : <= 10 g/event

Frequency and duration of use

Exposure duration : 0.25 h
Frequency of use : 4 events/day

Human factors not influenced by risk management

Dermal exposure : negligible

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Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : General measures (eye irritants), Avoid direct eye contact with

product, also via contamination on hands., Avoid splashing.

13.2.2 Contributing scenario controlling consumer exposure for: PC3 Air care products,

**Product characteristics** 

Physical Form (at time of use) : liquid, solid

Amount

Covers concentrations up to .... : <= 5 %Amount used per event : <= 50 g

Frequency and duration of use

Exposure duration : 8 h

Frequency of use : 1 events/day

Human factors not influenced by risk management

Dermal exposure : Assumes that potential dermal contact is limited to fingertips.

Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Consumer Measures : General measures (eye irritants), Avoid direct eye contact with

product, also via contamination on hands., Avoid splashing.

13.2.3 Contributing scenario controlling consumer exposure for: PC3 Air care products,

**Product characteristics** 

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Physical Form (at time of use) : liquid, solid

Amount

Covers concentrations up to .... : <= 100 %

Frequency and duration of use

Frequency of use : 1 events/day

Other given operational conditions affecting consumers exposure

Outdoor / Indoor : Indoor

### 13.3. Exposure estimation and reference to its source

### **Human Health**

Contributing Scenario	Specific conditions	Value type	Level of Exposure	RCR
For all PC	Qualitative approach used to conclude safe use.	All routes		

RCR = Risk characterisation ratio

For all PC Exposure Assessment Method: Qualitative approach used to conclude safe use.

# 13.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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# 14. ES14: Consumers end-use polishes and wax blends (IFRA GES 9)

# 14.1. Scenario description

Main User Groups : SU 21 Consumer uses: Private households (= general public =

consumers)

Product category : **PC31** Polishes and wax blends

### 14.2. Conditions of use affecting exposure

# 14.2.1 Contributing scenario controlling consumer exposure for: PC31 Polishes and wax blends,

According to REACH regulation, there is no limit of concentration to use the product in all usages described in the exposure scenarios present in this document, once the safety assessment was done as a mandatory request for the Chemical Safety Report.

# 14.3. Exposure estimation and reference to its source

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# 15. ES15: Consumer use, End use of cosmetic products

# 15.1. Scenario description

Main User Groups : SU 21 Consumer uses: Private households (= general public =

consumers)

Product category : **PC39** Cosmetics, personal care products

PC28 Perfumes, fragrances

Further information : In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006,

exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC., Covered by the Cosmetic Regulation (European Regulation (EC)

N°1223/2009).

# 15.2. Conditions of use affecting exposure

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