SAFETY DATA SHEET

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

1.1. Product identifier

Name of the substance	LATHANOL LAL COARSE
Identification number	939-512-2 (EC number)
Registration number	01-2119979530-32-000X
Synonyms	Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt
Product code	0546EU
Issue date	26-July-2018
Version number	02
Revision date	16-April-2020
Supersedes date	20-February-2018

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

Identified uses	Industrial use Detergents Surfactant (cosmetic) Emulsifier
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

	STEPAN EUROPE
Address	B.P. 127 / Chemin Jongkind 38343 Voreppe Cedex France
Telephone	(33) 4 76 50 51 00
Fax	(33) 4 76 50 51 35
Registration number	01-2119979530-32-0001
	STEPAN UK LIMITED
Address	Bridge St, Stalybridge Cheshire, SK15 1PH England
Telephone	+44(0)161 338 5511
Fax	+44(0)161 303 2991
Registration number	01-2119979530-32-0000

1.4. Emergency telephone number

General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Guy's Hospital Poisons Unit	(00 44)(1 71) 6 35 91 91

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.

Hazard summary Causes serious eye damage. Harmful if swallowed. Dangerous for the environment if discharged into watercourses.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt

Hazard pictograms

Signal word Danger

Hazard statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.

Response

P301 + P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt	90 - 100	939-512-2 939-512-2	01-2119979530-32-000X	-	

Classification: Acute Tox. 4;H302, Eye Dam. 1;H318, Aquatic Chronic 3;H412

Composition comments Alternative CAS (purpose of safety) of: EC# 939-512-2 = CAS # 1847-58-1

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry chemicals. Water fog.

Large Fires: Extinguish with water fog.

Unsuitable extinguishing media

Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce irritating, corrosive and/or toxic gases.

In the event of fire the following can be released:
Carbon oxides (COx)
Sulphur Oxides (SOx).
Hydrogen Chloride (HCl).

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid generation and spreading of dust. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination. Inform appropriate managerial or supervisory personnel of all environmental releases.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Sweep up or vacuum up spillage and collect in suitable container for disposal. Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Observe good industrial hygiene practices. Provide adequate ventilation. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment.

Promptly remove any clothing that becomes contaminated. Remove dust, fly and finish residues through ventilation or vacuum cleaning. Do not breathe dust.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

Product	Value	Assessment factor	Notes
Long-term, Systemic, Dermal	4.688 mg/kg bw/day	200	Repeated dose toxicity
Long-term, Systemic, Inhalation	6.52 mg/m3	50	Repeated dose toxicity

Long-term, Systemic, Oral	3.75 mg/kg bw/day	200	Repeated dose toxicity

Workers

Product	Value	Assessment factor	Notes
Long-term, Systemic, Dermal	9.375 mg/kg bw/day	100	Repeated dose toxicity
Long-term, Systemic, Inhalation	26.45 mg/m3	25	Repeated dose toxicity

Predicted no effect concentrations (PNECs)

Product	Value	Assessment factor	Notes
Freshwater	0.004 mg/l	1000	
Intermittent releases	0.042 mg/l	100	
Marine water	0.00042 mg/l	10000	
Sediment (freshwater)	0.253 mg/kg		
Sediment (marine water)	0.025 mg/kg		
Soil	0.048 mg/kg		
STP	1 mg/l	10	

8.2. Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. PVC gloves are recommended.

- Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid.

Form Chunks

Colour White.

Odour Pungent.

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not applicable

Flash point Not applicable

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Vapour pressure Not available.

Vapour density Not available.

Relative density 1.314 @ 20°C

Solubility(ies)

Solubility (water) Partially Soluble

Auto-ignition temperature 306 °C (582.8 °F)

Decomposition temperature 163 - 175 °C (325.4 - 347 °F)

Viscosity	Not applicable
Explosive properties	Not explosive. Airborne dust may form explosive mixture with air.
Oxidising properties	Not oxidising.

9.2. Other information

pH in aqueous solution	5 - 7.5 @ 50 g/l (20°C)

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	To avoid thermal decomposition, do not overheat. Contact with incompatible materials.
10.5. Incompatible materials	Avoid contact with acids and oxidising substances. Alkalis.
10.6. Hazardous decomposition products	Carbon oxides. (COx) Sulphur Oxides (SOx).

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye damage.
Ingestion	Harmful if swallowed.
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed.

Product	Species	Test Results
Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	1650 mg/kg
Subchronic		
Oral		
NOAEL	Rat	750 mg/kg/day

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	No information available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects.

Product		Species	Test Results
Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt			
Aquatic			
Algae	IC50	Algae	6.8 mg/l, 72 hours
	NOEC	Algae	0.86 mg/l, 72 hours
Crustacea	EC50	Daphnia	7.9 mg/l, 48 hours
Fish	LC50	Fish	4.2 mg/l, 96 hours

12.2. Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Partition coefficient n-octanol/water (log Kow) Not available.

12.4. Mobility in soil No data available.

Mobility in general

Distribution

Octanol/water distribution coefficient log DOW

< 4.5

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

Segregation group : None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	Follow national regulation for work with chemical agents. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.
15.2. Chemical safety assessment	Chemical Safety Assessment has been carried out. Exposure scenarios relevant for this material are annexed and distributed as seperate document to this eSDS.

SECTION 16: Other information

List of abbreviations

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006)
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008
CAS: Chemical Abstract Service
EINECS: European Inventory of Existing Commercial Chemical Substances
PBT: Persistent, bioaccumulative, toxic
vPvB: very Persistent, very Bioaccumulative
BLV: Biological Limit Value
LD50: Lethal Dose 50%
EC50: Effective Concentration 50%
LC50: Lethal Concentration 50%
IC50: Inhibition Concentration 50%
ES: Exposure scenario
CSR: Chemical Safety Report
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
ADR: European agreement concerning the international carriage of dangerous goods by road
RID: Regulations concerning the international carriage of dangerous goods by rail
IMDG Code: International Maritime Dangerous Goods Code
IATA: International Air Transport Association

References	Not available.
Information on evaluation method leading to the classification of mixture	Not applicable.
Full text of any H-statements not written out in full under Sections 2 to 15	H302 Harmful if swallowed.

H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

Training information Follow training instructions when handling this material.

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