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## Certificado de Analisis

### SODIUM LAURYL SULFOACETATE / SLSA

Batch: FR-9035143

Caducidad: 02/2027

Description	Limits	In Out	Result	Units
110-0 APPEARANCE (@ 25C)	White, Free Flowing Powder, FFM	IN	Passes	
058-0 PH (5% in Water)	5,0 - 7,5	IN	5,6	
022-0 WATER	1,5 Max.	IN	0,7	%
117-D ACTIVE (EW 345)	65,0 Min.	IN	97,5	%
119-0 SODIUM CHLORIDE	10 - 18	IN	14	%
057-0 SULFUR DIOXIDE	0,05 Max.	IN	0,00	%
234-0 SCREEN TEST (Retained on 20 Mesh)	5 Max.	IN	1	%
234-0 SCREEN TEST: Through 100 MESH	47,0 Max.	IN	39,7	%
006-E COLOR KLETT (5% Active in Water)	40 Max.	IN	7	
122-0* ALCOHOL INSOLUBLES	5 - 18	IN	Complies	
000-0* COMPONENT SOURCE	Each Drum Visually Inspected	IN	Complies	

\* Indicates component is a compliance test which is tested according to skip-lot testing schedule

**This certificate is electronically generated and is valid without a signature.**

THIS ANALYSIS IS NOT TO BE CONSTRUED AS A WARRANTY, EXPRESSED OR IMPLIED. The preceding data is provided at the request of and for the convenience of the customer and does not relieve the customer of its responsibility to verify data contained on this report and to perform any other analysis necessary to determine suitability of the product described above for the use intended by the customer.



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## SAFETY DATA SHEET

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

#### 1.1. Product identifier

<b>Name of the substance</b>	SODIUM LAURYL SULFOACETATE (SLSA)
<b>Identification number</b>	939-512-2 (EC number)
<b>Registration number</b>	01-2119979530-32-000X
<b>Synonyms</b>	Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt

<b>Issue date</b>	26-July-2018
<b>Version number</b>	03
<b>Revision date</b>	03-August-2020
<b>Supersedes date</b>	16-April-2020

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

<b>Identified uses</b>	Industrial use Detergents Surfactant (cosmetic) Emulsifier
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<b>Uses advised against</b>	None known.
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#### 1.3. Details of the supplier of the safety data sheet

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#### 1.4. Emergency telephone number: INSTITUTO NACIONAL DE TOXICOLOGIA MADRID 915620420

## 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.
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**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

Not available.

##### Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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**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	01-2119979530-32-000X	-	
<b>Classification:</b>	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

<b>General information</b>	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).
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	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.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ). Dry chemicals. Water fog.  Large Fires: Extinguish with water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet.
<b>5.2. Special hazards arising from the substance or mixture</b>	Fire may produce irritating, corrosive and/or toxic gases.  In the event of fire the following can be released: Carbon oxides (CO <sub>x</sub> ) Sulphur Oxides (SO <sub>x</sub> ). Hydrogen Chloride (HCl).
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	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.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	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.
<b>6.3. Methods and material for containment and cleaning up</b>	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.
<b>6.4. Reference to other sections</b>	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
Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt (CAS -)			
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
Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt (CAS -)			
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
Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt (CAS -)			
Freshwater	0.004 mg/l	1000	
Intermittent releases	0.042 mg/l	100	
Marine water	0 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 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.

## 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	0 Pa
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)
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## 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.
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### 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.
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Product	Species	Test Results
Acetic acid, 2-sulfo-, mono-C12-14(even numbered)-alkyl esters, sodium salt		
<u>Acute</u>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
<b>Oral</b>		
LD50	Rat	600 - 1650 mg/kg
<u>Subchronic</u>		
<b>Oral</b>		
NOAEL	Rat	750 mg/kg/day
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.	
<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>		
Not listed.		
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.	
<b>Mixture versus substance information</b>	No information available.	
<b>Other information</b>	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)** Log Kow (Log Pow) = -0.31 (20 °C)

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

**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**

<b>Residual waste</b>	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).
<b>Contaminated packaging</b>	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.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	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.
<b>Special precautions</b>	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.



<b>Other regulations</b>	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.
<b>National regulations</b>	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.
<b>15.2. Chemical safety assessment</b>	Chemical Safety Assessment has been carried out.
<b>SECTION 16: Other information</b>	
<b>List of abbreviations</b>	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
<b>References</b>	Not available.
<b>Information on evaluation method leading to the classification of mixture</b>	Not applicable.
<b>Full text of any H-statements not written out in full under Sections 2 to 15</b>	H302 Harmful if swallowed. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
<b>Revision information</b>	SECTION 2: Hazards identification: Response Composition / Information on Ingredients: Disclosure Overrides SECTION 8: Exposure controls/personal protection: Appropriate engineering controls Toxicological Information: Toxicological Data SECTION 12: Ecological information: Partition coefficient n-octanol/water (log Kow) SECTION 12: Ecological information: 12.5. Results of PBT and vPvB assessment Regulatory Information: Hazard Symbol - Labeling SECTION 15: Regulatory information: 15.2. Chemical safety assessment REACH: Associated Exposure Scenarios PNECs: Printed PNECs
<b>Training information</b>	Follow training instructions when handling this material.
<b>Disclaimer</b>	Manske cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

## **Annex to the extended Safety Data Sheet (eSDS)**

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ES available upon request