

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

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NATRII LAURILSULFAS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name:	Sodium laurilsulfate Natrii laurilsulfas Natriumlaurylsulfaat Sodium (laurilsulfate de) Natriumdodecylsulfat
N° CAS:	151-21-3
N° EC:	205-788-1

1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
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1.3 Details of the supplier of the safety data sheet

Company:	FAC SECUNDUM ARTEM NV Oostmalsebaan 1c (unit 5) 2960 Sint-Lenaarts Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Flam. Sol. 2	H228
Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 23	H335
Aquatic Chronic 3	H412

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



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Signal word(s): Danger

Hazard statements:

H228 Flammable solid.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long-lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective clothing, eye protection, face protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P313 Get medical advice/attention.
Additional applicable label elements: Not applicable.

2.3 Other hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name: Sodium laurilsulfate
IUPAC name: Sodium dodecyl sulfate
Synonyms: Sodium dodecyl sulphate
Dodecyl sulfate sodium salt
N° CAS: 151-21-3
N° EC: 205-788-1
Molecular Formula: $C_{12}H_{25}NaO_4S$
Content: Sodium alkyl sulfates: minimum 85.0 per cent, expressed as $C_{12}H_{25}NaO_4S$.
Mixture of sodium alkyl sulfates consisting mainly of sodium dodecyl sulfate ($C_{12}H_{25}NaO_4S$; Mr 288.4).

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

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4.1 Description of first aid measures

General notes:	Remove immediately contaminated clothing.
After inhalation:	Fresh air, rest. Never attempt to induce vomiting: risk of inhalation. Call a doctor.
After skin contact:	Wash skin with plenty of water and soap.
After eye contact:	Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Obtain emergency medical attention.
After ingestion:	Do not induce vomiting. Rinse mouth. May result in aspiration into the lungs, causing chemical pneumonia. Immediately consult a doctor/medical service.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation:	harmful by inhalation. Irritation of respiratory tract.
Symptoms/effects after skin contact:	skin irritation.
Symptoms/effects after eye contact:	Risk of serious damage to eyes.
Symptoms/effects after ingestion:	Harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment should be in general symptomatic to relieve any effects. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:	Carbon dioxide (CO ₂), dry chemical powder, foam, water.
Unsuitable extinguishing media:	Do not use a solid water stream as it may produce foam.

5.2 Special hazards arising from the substance/mixture

Fire hazard:	In case of fire it can release: Carbon oxides (CO and CO ₂), sulfur dioxide (SO ₂).
Explosion hazard:	It's dust is explosive with air.

5.3 Advice for firefighters

Surrounding fires:	Avoid (reject) fire-fighting water to enter environment.
Protection against fire:	Use a self-contained breathing apparatus and also a protective suit.
Hazardous combustion products:	Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment: Wear suitable protective clothing. Large spills/in enclosed spaces: compressed air apparatus.
Emergency procedures: Mark out the contaminated area with signs and prevent access to unauthorised personnel.
Spill area may be slippery.

For emergency responders

Protective equipment: Compressed air/oxygen apparatus. Fire-resistant protective clothing.

6.2 Environmental precautions

Use appropriate container to avoid environmental contamination.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Vacuum with an equipment that avoids ignition risk.

Other information: Not in groundwater, surface water or sewerage. Notify authorities if product enters sewers or public waters.

6.4 Reference to other sections

For exposure control and personal protective measures, see section 8.

For waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:

Additional hazards when processed: Dust may form explosive mixture in air.

Precautions for safe handling: Keep away from sources of ignition - No smoking. Avoid raising dust. Do not eat, drink or smoke when using this product. Use only explosion-proof equipment.

Personal protection:

Not available.

Technical protective measures:

Avoid raising dust.

Handling:

Not available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Not available.

Conditions for safe storage, including any incompatibilities:

Avoid dust formation.

Prevent build-up of electrostatic charges (e.g., by grounding).

Earth the equipment.

Use spark-/explosion proof appliances and lighting system.

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

Exclude sources of heat, sparks and open flame.

Incompatible products: Strong oxidisers. Reducing agent.

Storage – away from:

Keep away from ignition sources.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 4060 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 285 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, oral 24 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 85 mg/m³

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Long-term - systemic effects, dermal 2440 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) 0.131 mg/L

PNEC aqua (marine water) 0.0131 mg/L

PNEC aqua (intermittent, freshwater) 0.036 mg/L

PNEC (Sediment)

PNEC sediment (freshwater) 4.61 mg/kg dwt

PNEC sediment (marine water) 0.461 mg/kg dwt

PNEC (Soil)

PNEC soil 0.846 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 1.35 mg/L

8.2 Exposure controls

Appropriate engineering control

Provide appropriate exhaust ventilation at places of dust forming.

Individual protection measures

Eye/face protection: Face shield. Safety goggles.

Skin protection: Full protective flameproof clothing.

Hand protection: Wear suitable gloves.

Material: Nitrile rubber (NBR)

Permeation: 4 (> 120 minutes)

Thickness: ≥ 0.4 mm

Standard: EN ISO 374

Respiratory protection: Dust/aerosol mask. Wear anti dust mask (FFP3/NPF 50 type according to EN 149-2009)

Thermal hazards: Not determined.

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: White or pale yellow, powder or crystals.

Odour: Smelling is not recommended (causes respiratory irritation).

Odour threshold: Not available.

pH: 7.5 – 10.5 (1%)

Melting/freezing point: 102 °C

Initial boiling point: ≈ 187 °C (1010 mBar)

Boiling range: Not available.

Flash point: 206.5 °C (1013 mBar)

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Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	< 0.18 Pa (25°C)
Vapour density:	Not available.
Relative density:	1.155 (20 °C)
Solubility:	Partly soluble in ethanol (96 per cent).
Solubility in water:	Freely soluble in water giving an opalescent solution. 400 g/l (20°C)
Partition coefficient (n-octanol/water):	2.42 (20°C)
Auto-ignition temperature:	302 °C (powder, VDI 2263)
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

9.2 Other information

Bulk density: $\geq 0.4 \text{ g/m}^3$

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical stability

Keep away from (strong) acids. Strong oxidisers.

10.3 Possibility of hazardous reactions

Finely dispersed particles form explosive mixtures in air.

10.4 Conditions to avoid

No open flames, no sparks, and no smoking.
In use, may form flammable/explosive vapour-air mixture.

10.5 Incompatible materials

Keep away from oxidising agents. Reducing agent.

10.6 Hazardous decomposition products

Sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Harmful if swallowed.

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	Oral LD ₅₀ (rat): 500 – 2000 mg/kg bodyweight (Guideline: EU Method B.1 bis)
	Dermal LD ₅₀ (rat): > 2000 mg/kg bodyweight (OECD 402 method)
Skin corrosion/irritation:	Causes skin irritation. Additional information: Irritating. pH: 7,5 – 10,5 (1%)
Serious eye damage/irritation:	Causes serious eye damage. Additional information: Irritant (rabbit eye). pH: 7,5 – 10,5 (1%)
Respiratory/skin sensitisation:	Not classified (Non-sensitising (Guinea pig)).
Germ cell mutagenicity:	Not classified (Based on available data, the classification criteria are not met).
Carcinogenicity:	Not classified (Based on available data, the classification criteria are not met).
Reproductive toxicity:	Not classified (Lack of data).
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not classified (Lack of data).
STOT-repeated exposure:	Not classified (Based on available data, the classification criteria are not met). NOAEL (oral, rat, 90 days) : 488 mg/kg bodyweight/day (OECD 408 method)
Aspiration Hazard:	Not classified (Lack of data).
Other:	Not available.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Causes serious eye damage.
Skin contact:	Causes skin irritation.
Inhalation:	May cause respiratory irritation.
Ingestion:	Harmful if swallowed.
Aspiration:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Hazardous to the aquatic environment, short-term (acute): Not classified	
Hazardous to the aquatic environment, long-term (chronic): Harmful to aquatic life with long lasting effects.	
LC ₅₀ fish 1	3.6 mg/L (96 h, <i>Oncorhynchus mykiss</i>)
EC ₅₀ Daphnia 1	4.7 mg/L (<i>Daphnia magna</i> , 48h)
EC ₅₀ 72h algae (1)	> 20 mg/L (<i>Desmodesmus subspicatus</i>)
NOEC chronic fish	≥ 1.357 mg/L (<i>Pimephales promelas</i>)

12.2 Persistence and degradability

Readily biodegradable.
> 70 % after 28 days OECD Guideline 301B.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water: (Log Pow) 2.42 (20°C)
Bioaccumulative potential: None.

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12.4 Mobility in soil

Surface tension: 29.9 mN/m at 1g/l, 23 °C (EU similar to OECD 115)

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Collect all waste in suitable and labelled containers and dispose according to local legislation.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not applicable.

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not applicable.

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not applicable.

14.4 Packing group

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not applicable.

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not applicable.
ADN: Dangerous for the environment: No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not applicable.

14.8 Additional transport information

Not available.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:

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Risk phrases:

Highly flammable

Corrosive

Irritant

R22 Harmful if swallowed.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S16 Keep away from sources of ignition - No smoking.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water and soap.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

15.2 Chemical safety assessment

Not available.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

16.3 Key literature references/sources for data

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European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available.

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

Quality Department

FAC SECUNDUM ARTEM NV

info@magis-pharma.be