

Safety data sheet

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BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 10.10.2025

Version: 7.0

Product: **Agnique® SLS 90 P**

(ID no. 30532575/SDS_GEN_00/EN)

Date of print 15.06.2026

1. Identification

Product identifier

Agnique® SLS 90 P

Chemical name: Sodium dodecyl sulphate

CAS Number: 151-21-3

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

Relevant identified uses: surfactants

Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 621 60-57579

E-mail address: em-ehs-masterdata-lu@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Flam. Sol. 2
Acute Tox. 4 (Inhalation - dust)
Acute Tox. 4 (oral)
Acute Tox. 5 (dermal)
Aquatic Chronic 3
Skin Irrit. 2
Eye Dam. 1
STOT SE 3 (irritating to respiratory system)
Aquatic Acute 2

Specific Concentration Limits According to UN GHS Criteria

Eye Dam./Irrit. 2: 10 - < 20 %

Eye Dam./Irrit. 1: >= 20 %

For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H228	Flammable solid.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H302 + H332	Harmful if swallowed or if inhaled.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.
H313	May be harmful in contact with skin.

Precautionary Statements (Prevention):

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P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye protection or face protection.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust.
P273	Avoid release to the environment.
P261	Avoid breathing dust or fume.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.
P240	Ground and bond container and receiving equipment.

Precautionary Statements (Response):

P312	Call a POISON CENTER or physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P330	Rinse mouth.
P302 + P312	IF ON SKIN: Call a POISON CENTER or a doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical attention.
P370 + P378	In case of fire: Use water spray, dry powder or foam for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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According to UN GHS criteria

Hazard determining component(s) for labelling: Sodium dodecyl sulphate

Other hazardsAccording to UN GHS criteria

Fine dust can form an inflammable mixture together with air.

3. Composition/Information on Ingredients**Substances**Chemical nature

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Sodium dodecyl sulphate

CAS Number: 151-21-3

EC-Number: 205-788-1

For the classifications not written out in full in this section the full text can be found in section 16.

Mixtures

Not applicable

4. First-Aid Measures

Description of first aid measures

If adverse health effects develop seek medical attention.

If inhaled:

Keep patient calm, remove to fresh air. Seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water. Change contaminated clothing and shoes.

On contact with eyes:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Special hazards arising from the substance or mixture

harmful vapours

Generation of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid dust formation.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Dust explosion class: Dust explosion class 2 (Kst-value 200 up to 300 bar m s⁻¹).

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Paper/Fibreboard, Polypropylene (PP), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Do not stack pallets neither by transport nor by storage.

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Storage stability:

Storage temperature: 20 - 30 °C

Protect from temperatures below: 0 °C

Protect from temperatures above: 50 °C

The packed product must be protected against exceeding the indicated temperature.

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure Controls/Personal Protection**Control parameters**Components with occupational exposure limits

7757-82-6: Sodium sulphate

Exposure controlsPersonal protective equipment

Respiratory protection:

Breathing protection if dusts are formed.

Hand protection:

Suitable are protective gloves with the following specification. The recommendation is valid for laboratory conditions, specific workplace conditions must be taken into consideration separately.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

nitrile rubber (NBR) - 0.4 mm coating thickness

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measuresHandle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

State of matter:

solid

Form:

powder

Colour:

white

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Odour:	characteristic	
Odour threshold:		
	not applicable	
Melting point:	205 °C	
decomposition point:	> 216 °C	
Boiling point:	approx. 216 °C	(Directive 84/449/EEC, A.2)
Flammability:	Highly flammable.	(other)
Flammability of Aerosol Products:	not applicable, the product does not form flammable aerosoles	
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Flash point:	not applicable, the product is a solid	
Auto-ignition temperature:	not determined	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
pH value:	8,5 - 10,5 (water, 20 °C)	(DGF-H-III 1)
Viscosity, kinematic:	not applicable, the product is a solid	
Viscosity, dynamic:	not applicable, the product is a solid	
Thixotropy:	not thixotropic	
Solubility in water:	soluble > 130 g/l (20 °C)	(Directive 84/449/EEC, A.6)
Partitioning coefficient n-octanol/water (log Kow):	<= -2,03 (20 °C)	(Directive 84/449/EEC, A.8)
Vapour pressure:	0,0018 mbar (20 °C)	(Directive 84/449/EEC, A.4)
Relative density:	0,2 - 0,3	
Relative vapour density (air):	not applicable	
<u>Particle characteristics</u>		
Particle size distribution:		(Volumetric Distribution, measured)
	particles 67 µm	10 %
	particles 183 µm	50 %
	particles 417 µm	90 %

9.2. Other information**Information with regard to physical hazard classes**Explosives

Explosion hazard: Product is not explosive, however a dust explosion could result from an air / dust mixture.

Oxidizing properties

Fire promoting properties: not fire-propagating

Flammable solids

Burning rate: 3,7 mm/s

(Directive 84/449/EEC, A.10)

Self-heating substances and mixtures

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Self heating ability: It is not a substance capable of spontaneous heating.

Other safety characteristics

Bulk density: 200 - 300 kg/m³ (DGF-H-II 1b)

Hygroscopy: Non-hygroscopic

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

No further information available.

Evaporation rate: The product is a non-volatile solid.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

None if used for intended purpose.

Conditions to avoid

See SDS section 7 - Handling and storage.

Incompatible materials

Substances to avoid:

No substances known that should be avoided.

Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effectsAcute toxicity

Assessment of acute toxicity:

Of low toxicity after short-term skin contact.

Of moderate toxicity after short-term inhalation.

Of moderate toxicity after single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 500 - 2.000 mg/kg (OECD Guideline 401)

LD50 rabbit (dermal): > 2.000 mg/kg

Irritation

Assessment of irritating effects:

May cause severe damage to the eyes.

Skin contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

guinea pig: Non-sensitizing.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Germ cell mutagenicity

Assessment of mutagenicity:

Mutagenicity tests revealed no genotoxic potential.

Experimental/calculated data:

Ames-test

Bacteria: negative (OECD Guideline 471)

Micronucleus assay

mouse: negative (OECD Guideline 474)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The information available on the product provides no indication of reproductive toxicity.

Developmental toxicity

Assessment of teratogenicity:

The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Aspiration hazard

No aspiration hazard expected.

12. Ecological Information

Toxicity

Toxicity to fish:

LC50 > 10 - 100 mg/l, Pimephales promelas (Screening (style of OECD 203))

Aquatic invertebrates:

EC50 > 1 - 10 mg/l, Ceriodaphnia dubia

Aquatic plants:

EC50 > 100 mg/l, Desmodesmus subspicatus

Microorganisms/Effect on activated sludge:

EC0 > 100 mg/l, Pseudomonas putida (OECD Guideline 209)

EC0 > 100 mg/l, Pseudomonas putida (DIN 38412 Part 8)

Chronic toxicity to fish:

No observed effect concentration > 1 - 10 mg/l, Pimephales promelas

Chronic toxicity to aquatic invertebrates:

No observed effect concentration <= 1 mg/l, Ceriodaphnia dubia

Persistence and degradability

Assessment biodegradation and elimination (H2O):

Readily biodegradable (according to OECD criteria).

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Elimination information:

(Annex III , part A) The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.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.

Bioaccumulative potential**Assessment bioaccumulation potential:**

Accumulation in organisms is not to be expected.

Mobility in soil**Assessment transport between environmental compartments:**

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

Other adverse effects

The substance is not listed in Regulation (EU) 2024/590 on substances that deplete the ozone layer.

13. Disposal Considerations**Waste treatment methods**

Must be disposed of or incinerated in accordance with local regulations.

14. Transport Information**Land transport**

ADR

UN number or ID number: UN1325

UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (SODIUM DODECYL SULPHATE)

Transport hazard class(es): 4.1

Packing group: III

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Environmental hazards: no
Special precautions for user: Tunnel code: E

RID

UN number or ID number: UN1325
UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (SODIUM DODECYL SULPHATE)

Transport hazard class(es): 4.1
Packing group: III
Environmental hazards: no
Special precautions for user: None known

Inland waterway transport**ADN**

UN number or ID number: UN1325
UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (SODIUM DODECYL SULPHATE)

Transport hazard class(es): 4.1
Packing group: III
Environmental hazards: no
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport**IMDG**

UN number or ID number: UN 1325
UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (SODIUM DODECYL SULPHATE)

Transport hazard class(es): 4.1
Packing group: III
Environmental hazards: no
Marine pollutant: NO
Special precautions for user: EmS: F-A; S-G

Air transport**IATA/ICAO**

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UN number or ID number: UN 1325
UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (SODIUM DODECYL SULPHATE)

Transport hazard class(es): 4.1
Packing group: III
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

15. Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Flam. Sol.	Flammable solids
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Skin Irrit.	Skin irritation
Eye Dam.	Serious eye damage
STOT SE	Specific target organ toxicity — single exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
Eye Dam./Irrit.	Serious eye damage/eye irritation

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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