

Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 14.05.2019

Version: 2.0

Product: **Agnique® SLS 2490P-B**

(ID no. 30537871/SDS_GEN_00/EN)

Date of print 06.10.2022

1. Identification

Product identifier

Agnique® SLS 2490P-B

Chemical name: Sulfuric acid, mono-C10-16-alkyl esters, sodium salts

CAS Number: 68585-47-7

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

Relevant identified uses: surfactants, emulsifier

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: emd-ems-ehs-masterdata@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. 1

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

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.
H313	May be harmful in contact with skin.
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.

Precautionary Statements (Prevention):

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

Precautionary Statements (Response):

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P310	Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P330	Rinse mouth.
P370 + P378	In case of fire: Use foam or dry powder 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/container to hazardous or special waste collection point.
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Other hazards

According to UN GHS criteria

Avoid the formation and build-up of dust - danger of dust explosion.

3. Composition/Information on Ingredients

Substances

Chemical nature

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts
CAS Number: 68585-47-7
EC-Number: 271-557-7

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

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First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye 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: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far

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:
dry powder, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

Special hazards arising from the substance or mixture

harmful vapours, carbon oxides, sulfur oxides

Evolution 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.

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The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Forms slippery surfaces with water.

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures, see section 8.

Environmental precautions

Contain contaminated water/firefighting water. 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: Pick up with suitable appliance and dispose of.

Avoid raising dust. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

The product is combustible. Dust can form an explosive mixture with air. Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame. If exposed to fire, keep containers cool by spraying with water. If delivered in plastic packing, highest permissible emptying temperature is 5 Kelvin below the flash point.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), tinned carbon steel (Tinplate), Low density polyethylene (LDPE)

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

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

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7647-14-5: Sodium chloride

7757-82-6: Sodium sulphate

Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

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

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

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 measures

Wearing of closed work clothing is required additionally to the stated personal protection equipment.

No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	solid, fine powder
Colour:	colourless to pale yellow
Odour:	characteristic
Odour threshold:	not determined
pH value:	not determined
Melting point:	not determined
Boiling point:	not determined

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Flash point:	not applicable, the product is a solid	
Evaporation rate:		
Flammability:	The product is a non-volatile solid. Flammable solid.	(UN Test N.1 (ready combustible solids))
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Ignition temperature:	not determined	
Vapour pressure:	not applicable	
Density:	Study does not need to be conducted.	
Relative density:	No data available.	
Relative vapour density (air):	The product is a non-volatile solid.	
Solubility in water:	not determined	
Solubility (qualitative) :	soluble	
Partitioning coefficient n-octanol/water (log Kow):	not determined	
Self ignition:	not self-igniting	
Thermal decomposition:	not determined	
Viscosity, dynamic:	not applicable, the product is a solid	
Viscosity, kinematic:	not applicable, the product is a solid	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

Other information

Burning rate:	4,5 mm/s, 22 s	(UN Test N.1 (ready combustible solids))
Self heating ability:	It is not a substance capable of spontaneous heating.	
Bulk density:	0,25 - 0,35 kg/m ³	
Hygroscopy:	The product has not been tested.	
Grain size distribution:	No data available.	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

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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

In spite of the dedusting carried out for reasons of industrial health a dust explosion hazard can not be excluded.

Conditions to avoid

See MSDS section 7 - Handling and storage. Avoid dust formation. Avoid deposition of dust.

Incompatible materials

Substances to avoid:

acids, Alkalines, caustics, reactive chemicals

Hazardous decomposition products

Hazardous decomposition products:

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

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Of low toxicity after short-term skin contact.

Experimental/calculated data:

LD50 rat (oral): > 300 - 2.000 mg/kg (OECD Guideline 420)

LC50 rat (by inhalation):

not determined

LD50 rabbit (dermal): > 2.000 - 5.000 mg/kg

Irritation

Assessment of irritating effects:

Risk of serious damage to eyes. Irritating to skin. May cause slight irritation to the respiratory tract.

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Experimental/calculated data:

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

Data refer to a diluted aqueous solution of the substance.

Serious eye damage/irritation rabbit: irreversible damage (similar to OECD guideline 405)

An aqueous solution was tested.

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

Analogous: Assessment derived from products with similar chemical character.

Germ cell mutagenicity

Assessment of mutagenicity:

Mutagenicity tests revealed no genotoxic potential.

Experimental/calculated data:

Ames-test

negative (OECD Guideline 471)

Micronucleus assay

mouse (gavage): negative (OECD Guideline 474)

Carcinogenicity

Assessment of carcinogenicity:

In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was not observed.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

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.

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

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies. Repeated oral exposure to large quantities may affect certain organs.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

Toxic to aquatic life. Harmful to aquatic life with long lasting effects. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) > 1 - 10 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, semistatic)

Aquatic invertebrates:

EC50 (48 h) > 1 - 10 mg/l, *Daphnia magna* (Directive 92/69/EEC, C.2, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic plants:

EC50 (72 h) > 10 - 100 mg/l (growth rate), *Scenedesmus subspicatus* (Guideline 92/69/EEC, C.3, static)

acute Effect The details of the toxic effect relate to the nominal concentration.

Microorganisms/Effect on activated sludge:

EC10 (16 h) 1.084 mg/l, *Pseudomonas putida* (DIN 38412 Part 8, aquatic)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish:

No observed effect concentration > 0,1 - 1 mg/l

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (7 d) > 0,1 - 1 mg/l, *Ceriodaphnia dubia* (Daphnia test chronic, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

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Assessment of terrestrial toxicity:
Study scientifically not justified.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):
Readily biodegradable (according to OECD criteria).

Elimination information:

> 70 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic, non-adapted)

Bioaccumulative potential

Assessment bioaccumulation potential:
Significant 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 possible.

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 fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Do not discharge product into the environment without control.

13. Disposal Considerations

Waste treatment methods

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

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Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

ADR

UN number	UN1325
UN proper shipping name:	FLAMMABLE SOLID, ORGANIC, N.O.S. (contains SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS)
Transport hazard class(es):	4.1
Packing group:	II
Environmental hazards:	no
Special precautions for user:	Tunnel code: E

RID

UN number	UN1325
UN proper shipping name:	FLAMMABLE SOLID, ORGANIC, N.O.S. (contains SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS)
Transport hazard class(es):	4.1
Packing group:	II
Environmental hazards:	no
Special precautions for user:	None known

Inland waterway transport

ADN

UN number	UN1325
UN proper shipping name:	FLAMMABLE SOLID, ORGANIC, N.O.S. (contains SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS)
Transport hazard class(es):	4.1
Packing group:	II
Environmental hazards:	no
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

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Sea transport

IMDG

UN number: UN 1325
UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (contains SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS)
Transport hazard class(es): 4.1
Packing group: II
Environmental hazards: no
Marine pollutant: NO
Special precautions for user: None known

Air transport

IATA/ICAO

UN number: UN 1325
UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (contains SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS)
Transport hazard class(es): 4.1
Packing group: II
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation: Not evaluated
Shipment approved: Not evaluated
Pollution name: Not evaluated
Pollution category: Not evaluated
Ship Type: Not evaluated

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

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This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

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

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

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.

Vertical lines in the left hand margin indicate an amendment from the previous version.