

Safety Data Sheet AB 129289

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Europe

Date of revision 12.12.2024

Version 0.04

1. Identification of the Substance and the Company

1.1 Product identifier

Product name n-Octyltrimethoxysilane; 97%

 CAS number
 3069-40-7

 Product code
 AB129289

1.2 Identified uses

Chemicals used in research and development, analysis and production

1.3 Details of the supplier of the safety data sheet

Company details abcr GmbH

Im Schlehert 10 76187 Karlsruhe

Germany

Telephone +49 (0)721 950 610 Email sdb@abcr.com

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463 (multilingual)

2. Hazards identification

2.1 Classification of the substance or mixture

Product definition Substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

H315 SKIN CORROSION/IRRITATION Category 2

2.2 Label elements

Hazard pictograms



Signal word Warning

Hazard statements H315 - Causes skin irritation. **Precautionary statements** P280 - Wear protective gloves.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P332 + P313 - If skin irritation occurs: Get medical advice or attention.



Hazardous ingredients

n-Octyltrimethoxysilane; 97%

Supplemental label elements

Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

| PBT | Р | В | Т | vPvB | vΡ | vB |
|-----|-----|-----|----|------|-----|-----|
| No | N/A | N/A | No | N/A | N/A | N/A |

Other hazards which do not result in classification

None known.

See Section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Substance/mixture

Mono-constituent substance

| Product/ingredient name | Identifiers | % | Classification Regulation (EC) No. 1272/2008 [CLP] | Specific Conc. Limits, M-factors and ATEs | Туре |
|---------------------------------|---------------------------------|-----|---|---|------|
| n-Octyltrimethoxysilane; 97% | EC: 221-338-7 CAS: 3069-40-7 | 100 | Skin Irrit. 2, H315 | - | [1] |
| | | | See Section 16 for the full text of the H statements declared above. | | |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.

4. First aid measures

4.1 Description of first aid measures

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.



Inhalation Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs,

provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband.

Skin contact Wash contaminated skin with soap and water. Remove contaminated clothing

and shoes. Continue to rinse for at least 10 minutes. Get medical attention.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aidersNo action shall be taken involving any personal risk or without suitable training.

It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Skin contact Causes skin irritation.

Over-exposure signs/symptoms

Eye contact Adverse symptoms may include the following:

pain or irritation

watering redness

Skin contact Adverse symptoms may include the following:

irritation redness

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments No specific treatment.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO2.

Unsuitable extinguishing

media

Do not use water jet.

5.2 Special hazards arising from the substance or mixture



Hazards from the substance

or mixture

Combustible

Hazardous combustion

products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Special protective equipment

for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection

for chemical incidents.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as

the spilled product.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.



7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures Put on appropriate personal protective equipment (see Section 8). Do not

ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Keep under inert atmosphere.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations

Industrial sector specific

solutions

Not available.

Not available.

8. Exposure controls/Personal protective equipment

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement

of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

for the determination of hazardous substances will als

Derived effect levels



No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering

controls

Good general ventilation should be sufficient to control worker exposure to

airborne contaminants.

Individual protection measures

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products,

before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Safety eyewear complying with an approved standard should be used when a

risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical

splash goggles.

Skin protection

Hand protection Chemical-resistant, impervious gloves complying with an approved standard

should be worn at all times when handling chemical products if a risk

assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the

gloves cannot be accurately estimated.

Body protection Personal protective equipment for the body should be selected based on the

task being performed and the risks involved and should be approved by a

specialist before handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should

be approved by a specialist before handling this product.

Respiratory protectionBased on the hazard and potential for exposure, select a respirator that meets

the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other

important aspects of use.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection

legislation. In some cases, fume scrubbers, filters or engineering modifications

to the process equipment will be necessary to reduce emissions to acceptable levels.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state Liquid.

Color Colorless to light yellow.

Odor Not available.
Odor threshold Not available.



pH Not available.

Melting point/freezing point

-66°C

Initial boiling point and

75 °C [0,1 mm Hg]

boiling range

Flammability (solid, gas)
Upper/lower flammability or

Not available.

explosive limits

Not available.

Flash point

Closed cup: 103°C

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Solubility(ies)Not available.

Solubility at room temperature Insoluble

[H2O]

Reacts

Partition coefficient: n-octanol/ Not available.

water

Vapor pressure0,0027 kPaEvaporation rateNot available.Relative densityNot available.Density0,91 g/cm³Vapor densityNot available.Explosive propertiesNot available.Oxidizing propertiesNot available.

Particle characteristics

Median particle size Not applicable.

9.2 Other information

Burning time Not applicable.
Burning rate Not applicable.

No additional information.

10. Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Moisture-reactive material. Handle under inert gas.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

exposure to heat and moisture



10.5 Incompatible materials

water oxidizing agents

10.6 Hazardous decomposition products

Methanol

11. See toxicological information

11.1 Information on toxicological effects

Acute toxicity

Conclusion/Summary

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary Not available.

Sensitizer

Conclusion/Summary Not available.

Mutagenicity

Conclusion/Summary Not available.

Carcinogenicity

Conclusion/Summary Not available.

Reproductive toxicity

Conclusion/Summary Not available.

Teratogenicity

Conclusion/Summary Not available.

Information on the likely

routes of exposure

Not available.

Potential acute health effects

Inhalation No known significant effects or critical hazards.

Skin contact Causes skin irritation.

IngestionNo known significant effects or critical hazards.Eye contactNo known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics



InhalationNo specific data.IngestionNo specific data.

Skin contact Adverse symptoms may include the following:

irritation

redness

Eye contact Adverse symptoms may include the following:

pain or irritation

watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

Not available.

Conclusion/Summary Not available.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

12. Ecological Information

12.1 Toxicity

Conclusion/Summary Not available.

12.2 Persistence and degradability

Conclusion/Summary Not available.



12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient Not available.

(Koc)

Mobility Not available.

12.5 Results of PBT and vPvB assessment

| Product/ingredient name | PBT | Р | В | T | vPvB | vΡ | vB |
|------------------------------|-----|-----|-----|----|------|-----|-----|
| n-Octyltrimethoxysilane; 97% | No | N/A | N/A | No | N/A | N/A | N/A |

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the

requirements of all authorities with jurisdiction.

Hazardous waste The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposalThe generation of waste should be avoided or minimized wherever possible.

Waste packaging should be recycled. Incineration or landfill should only be

considered when recycling is not feasible.

Special precautions This material and its container must be disposed of in a safe way. Care should

be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways,

drains and sewers.



14. Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|--|--|--|--|
| 14.1 UN number or ID number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |
| 14.6 Special precautions for user | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| Additional information | - | - | - | - |

14.7 Transport in bulk according to IMO instruments

Not available.

15. Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.



Annex XVII - Restrictions on the manufacture, placing on

the manufacture, placing on the market and use of certain

dangerous substances, mixtures and articles

Other EU regulations

Industrial emissions (integrated pollution

prevention and control) - Air

Industrial emissions (integrated pollution prevention and control) -

Water

Not applicable.

Not listed

Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

China This material is listed or exempted.

Canada This material is not listed in DSL but is listed in NDSL.

Australia This material is listed or exempted.

Eurasian Economic Union Russian Federation inventory: Not determined.



Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): This material is listed or exempted.

New Zealand Not determined.

Philippines This material is listed or exempted.

Republic of Korea Not determined.

Taiwan This material is listed or exempted.

Thailand Not determined.
Turkey Not determined.

United States This material is listed or exempted.

Viet Nam Not determined.

15.2 Chemical Safety

Assessment

Not available.

16. Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|---------------------|-----------------|
| Skin Irrit. 2, H315 | Expert judgment |

Full text of abbreviated H

statements

H315 Causes skin irritation.

Full text of classifications

[CLP/GHS]

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Full text of classifications

[CLP/GHS]

Skin Irrit. 2

SKIN CORROSION/IRRITATION - Category 2

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Notice to reader



The above information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.