

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



AEROSIL R972

Version: 4
Revision date: 13/05/2019

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

1.1 Product identifier.

Product Name: AEROSIL R972
Chemical Name: Silane, dichlorodimethyl, reaction products with silica
CAS No: 68611-44-9
Registration No: If exsite is specified in Chapter 3

1.2 Relevant identified uses of the substance and uses advised against.

Industrial use

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **ALDEBARÁN SISTEMAS SL**
Address: C/Jerónimo Zurita, 10, entlo izda, 50001
City: Zaragoza
Province: Zaragoza
Telephone: 0034976796134
E-mail: aldebaran@aldebaransistemas.com

1.4 Emergency telephone number: 0034915620420 (Available 24 hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance.

The product is not classified as hazardous within the meaning of Regulation (EU) No 1272/2008.

2.2 Label elements.

Labelling according to (EC) No 1272/2008
In accordance with Regulation EU-CLP (1272/2008) not subject to labelling

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Chemical Name: Silane, dichlorodimethyl, reaction products with silica
CAS No: 68611-44-9
CE No: 271-893-4

3.2 Mixtures.

Not Applicable.

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SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

Due to the composition and type of the substances present in the product, no particular warnings are necessary.

Inhalation.

In case of dust release of the product.
Possible discomfort: cough, sneeze
Move affected people to fresh air.

Eye contact.

Possible molestias due to foreign bodies.
With the eyelid open, wash thoroughly, with plenty of water.
In case of persistent discomfort: presence of the oculist

Skin contact.

Wash with plenty of water and soap

Ingestion.

Wash your mouth with water and then drink plenty of water.
After swallowing large amounts of the substance / in case of discomfort, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed.

No known acute or delayed effects from exposure to the product.

4.3 Indication of any immediate medical attention and special treatment needed.

No hazards that require special first aid measures.

SECTION 5: FIREFIGHTING MEASURES.

5.1 Extinguishing media.

Recommended extinguishing methods.

Water jet spray. Foam, CO₂, extinguishing powder.
Adapt the extinguishing medium to the environment.

Unsuitable extinguishing media

Do not use any powerful water jet in order to avoid the dispersion and spread of fire

5.2 Special hazards arising from the substance.

Special risks.

In case of fire, possible release of carbon monoxide, carbon dioxide, organic decomposition products.

5.3 Advice for firefighters.

The extinguishing water must not reach the sewers, subsoil or water.
Provide sufficient extinguishing water retention devices.
The remains of the fire and the contaminated extinguishing water must be disposed of according to the local regulations in force.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Wear personal protective equipment

6.2 Environmental precautions.

There should be no sewage water groundwater, groundwater, sewage.

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6.3 Methods and material for containment and cleaning up.

Collect or inhale the spill and put it in a suitable container for disposal.
Avoid the formation of dust

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

In certain cases, aspiration of the object

7.2 Conditions for safe storage, including any incompatibilities.

Avoid the accumulation of electrostatic charges.
Store in a dry place
Dust explosion class: 1m³ tank = no explosion (VDI standard 2263 sheet 1.

7.3 Specific end use(s).

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Silicon dioxide
N^oCAS: 112945-52-5 n.CE: 231-545-4
7631-86-9
Control parameters: 10 mg / m³ Time Weighted Average (MPT): (VLA (ES))

8.2 Exposure controls.

Personal protection

Respiratory protection
No special protection equipment is required.
If dust appears: Mask against dust with P2 particle filter.

Protection of hands

Wear protective gloves made of the following materials: cloth, rubber, leather.
The specifications of material thickness and breaking time can not be applied for undissolved solids / powders.

Protection of the eyes

Safety glasses with side-shields
If dust appears: goggle glasses

Protection of the skin and body

No special protection equipment is required.

Hygiene measures

Do not eat, drink or smoke during use. Before the breaks and at the end of the work, wash your hands and / or face.
To ensure optimal protection of the skin: use fatty soap and care for the skin with a cream.
Wash the contaminated clothing before using it again.

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Protection measures

Handle with the appropriate industrial hygiene precautions, and respect safety practices. In case there is the possibility of contact with the skin or with the eyes, use the protective equipment indicated for hands, eyes and for the body in general.

Once the specific limit values have been exceeded, in the workplace and / or released large quantities (spills, spills, dust) use the indicated respiratory equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Powder
Colour: White
Odour: Unodourless
Odour threshold: N.A./N.A.
pH: 3,6-5,5 (4%) (water:methanol 1:1)
Melting point: N.A./N.A.
Boiling Point: N.A./N.A.
Flash point: N.A./N.A.
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density: N.A./N.A.
Relative density: 2,2 g/cm³
Solubility: >1 mg/l
Liposolubility: N.A./N.A.
Hydrosolubility: N.A./N.A.
Partition coefficient (n-octanol/water): N.A./N.A.
Auto-ignition temperature: N.A./N.A.
Decomposition temperature: >300°C
Viscosity: N.A./N.A.
Explosive properties: N.A./N.A.
Oxidizing properties: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A.
Blink: N.A./N.A.
Kinematic viscosity: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions.

In case of proper handling and storage, no dangerous reactions are known..

10.4 Conditions to avoid.

At temperatures > 300 ° C hydrophobicity is lost.

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10.5 Incompatible materials.

None known

10.6 Hazardous decomposition products.

Decomposition products by heating higher than the decomposition temperature.

Carbon monoxide

Carbon dioxide (CO₂)

Organic decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

There are no tested data available on the product.

a) acute toxicity;

LD50 rat: > 5000 mg / kg

Method: OECD analogous method

Acute toxicity by inhalation

DL0 rat: 0.477 mg / l / 4 h

Method: OECD analogous method

(maximum concentration achievable experimentally) affordable product

b) skin corrosion/irritation;

Rabbit

Not irritating

Method: OECD analogous method

c) serious eye damage/irritation;

Rabbit

Not irritating

Method: OECD analogous method

d) respiratory or skin sensitisation;

Unknown

e) germ cell mutagenicity;

No indication of mutagenic effect

f) carcinogenicity;

No indication of carcinogenic effect.

g) reproductive toxicity;

There are no indications on reprotoxic properties

h) STOT-single exposure;

No warning regarding critical properties

i) STOT-repeated exposure;

No warning regarding critical properties

j) aspiration hazard;

No classification of aspiration toxicity.

Human experience: Silicosis or other respiratory diseases specific to the product have not been observed in the handling of this product.

Additional information: An expert judgment found that, according to current knowledge, no classification is required.

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SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Toxicity to fish: LC50 (Brachydanio rerio): > 10000 mg / l / 96h
Methods: OECD 203
The toxic effect data refer to the nominal concentration.

Toxicity for inver_: LC50 (Daphnia magna): > 10000 mg / l / 24h
aquatic brads Methods: OECD 202
The toxic effect data refer to the nominal concentration.

Toxicity for algae: LC50 (Brachydanio rerio): > 10000 mg / l / 72h
Method: OECD 201
The toxic effect data refer to the nominal concentration.

12.2 Persistence and degradability.

Biodegradability: The methods to determine the persistence and biodegradability are not applicable to this product analogously to inorganic substances.

12.3 Bioaccumulative potencial.

Bioaccumulation: Not expected

12.4 Mobility in soil.

Mobility: Considerable mobility on the ground is not expected

12.5 Results of PBT and vPvB assessment.

According to criteria of REACH regulation, without PBT, nor vPvB substances

12.6 Other adverse effects.

The data we have available does not give rise to any environmental identification.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Product

It can be deposited with domestic garbage by observing the necessary technical provisions, after consultation with the person in charge of disposal and the competent authorities.

Unpurified containers

Offer rinsed packaging material to local recycling facilities.
Other countries: national provisions must be taken into account.

Waste identification number

No waste code number can be set for this product in accordance with the European waste index, since the use intended by the consumer first allows an allocation.

The waste code number is set according to the European waste index (EU decision on waste index 2000/532 / EC) according to agreement with the eliminators / manufacturers / the Authority.

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SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number.

Transportation is not dangerous.

14.2 UN proper shipping name.

Description:

ADR: Transportation is not dangerous.

IMDG: Transportation is not dangerous.

ICAO: Transportation is not dangerous.

14.3 Transport hazard class(es).

Transportation is not dangerous.

14.4 Packing group.

Transportation is not dangerous.

14.5 Environmental hazards.

Transportation is not dangerous.

14.6 Special precautions for user.

Transportation is not dangerous.

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

Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

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

National legislation

15.2 Chemical safety assessment.

No exposure and risk assessment is necessary for this product, as it has not been categorized in relation to the risks to health and the environment

SECTION 16: OTHER INFORMATION.

Sections changed compared with the previous version:

4,5,6,7,8,9,10,11,12

CEN: European Committee for Standardization.

PPE: Personal protection equipment.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted 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, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive

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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 Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.