

Silicon oxide, surface modified with amino group

Revision Date: 1/10/2017 Date Issued: 2/26/2018

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

Product name Silicon oxide,

Surface modified with amino group

Product code NO-0056

CAS 7631-86-9

REACH No.: A registration number is not available for this

substance as the substance or its uses are

exempted from registration, the annual tonnage

does not require a registration or the registration is

envisaged for a later registration deadline.

Identified uses Laboratory chemicals, Manufacture of substances

Supplier IoLiTec

Ionic Liquids Technologies GmbH

Salzstrasse 184

D – 74076 Heilbronn

Germany

Telephone +49 (0)7131-89839-0 **Fax** +49 (0)7131-89839-109

Emergency telephone +49 (0)179-5322578

Email msds@iolitec.de

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULTATION (EC) No 1272/2008)

Serious eye damage/Eye irritation, Category 2, H319

Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation,

Category 3, H335

NO-0056 Page: 1/9



Silicon oxide, surface modified with amino group

Revision Date: 1/10/2017

Date Issued: 2/26/2018

Classification (67/548/EEC or 1999/45/EC)

Irritating to eyes, respiratory system and skin.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008, GHS)

Pictogram

Signal word Warning

Hazard statement(s)

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/

vapours/ spray.

P280 Wear protectic gloves/protective clothing/eye

protection/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Caution - substance not yet tested completely.
Supplemental Hazard Statements none

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s)



R-phrase(s)

R36/37/38 Irritating to eyes, respiratory system and skin.

NO-0056 Page: 2/9



Silicon oxide, surface modified with amino group

Revision Date: 1/10/2017 Date Issued: 2/26/2018

S-phrase(s)

S26 In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice.

Wear suitable protective clothing.

Caution - substance not yet tested completely.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name Contents Health(Class) Risk(R/No.)

Silicon dioxide, NH₂-modified 99.9% Substance not yet fully tested!

Formula Molecular Weight SiO₂(-NH₂)_x 60.09g/mol (SiO₂)

4 FIRST AID MEASURES

General Contaminated clothing should be removed

and washed before being reused.

Inhalation Move the exposed person to fresh air at once.

If respiratory problems, artificial respiration/

oxygen.

Ingestion Immediately rinse mouth and provide fresh

air. Do not induce vomiting. Get medical

attention immediately.

Skin Wash the skin immediately with soap and

water.

Eyes Promptly wash eyes with plenty of water while

lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention

immediately. Continue to rinse.

NO-0056 Page: 3/9



Silicon oxide, surface modified with amino group

Revision Date: 1/10/2017 Date Issued: 2/26/2018

5 FIRE FIGHTING MEASURES

Extinguishing mediaUse extinguishing media appropriate to

surrounding fire conditions.

Special fire fighting procedures No special procedures required.

Unusual fire & explosion hazards Emission of toxic fumes

Protective measures in fire Wear self-contained breathing apparatus as

combustion may produce hazardous fumes.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions during spill Wear protective clothing and avoid inhalation

of powder, fume and vapor as well as skin or

eye contact.

Precautions to protect

environment Avoid washing into water courses. Avoid

contaminating public drains or water supply.

Spill cleanup methodsAvoid contact with skin or inhalation of

spillage, dust or vapor, Avoid dust formation.

Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat

and smoking. Ventilate.

NO-0056 Page: 4/9



Silicon oxide, surface modified with amino group

Revision Date: 1/10/2017 Date Issued: 2/26/2018

7 HANDLING AND STORAGE

Handling precautions Do not breathe dust. Avoid contact with eyes,

skin, and clothing. Avoid prolonged or

repeated exposure.

Storage precautions Keep container tightly closed.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

NO-0056 Page: 5/9



Silicon oxide, surface modified with amino group

Revision Date: 1/10/2017 Date Issued: 2/26/2018

Exposure limits

SiO ₂	mg/m ³
Germany OEL	0.3
Switzerland OEL	0.3
United Kingdom OEL	0.8

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid

Color white

Odor/taste no characteristic odor

Boiling Point2.230 °CMelting Point1.600 °CBulk Density2,65 g/cm³

10 STABILITY AND REACTIVITY

Stability No particular stability concerns.

Conditions/materials to avoid Strong acids, oxidizing agents, hydrogen

fluoride, oxygen difluoride, chlorine trifluoride,

ammonia, acethylene.

Hazardous Decomposition Hazardous products of decomposition: Not

known

NO-0056 Page: 6/9



Silicon oxide, surface modified with amino group

Revision Date: 1/10/2017 Date Issued: 2/26/2018

11 TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Ingestion May be harmful if swallowed.

Inhalation May be harmful if inhaled. Material may be

irritating to mucous membranes and upper

respiratory tract.

Skin May cause irritation

Eyes May cause irritation

Additional Information

RTECS: Not available

Full Data on the toxicity of this product are not available. Hazardous properties cannot be excluded.

NO-0056 Page: 7/9



Silicon oxide, surface modified with amino group

Revision Date: 1/10/2017 Date Issued: 2/26/2018

12 ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

13 DISPOSAL CONSIDERATIONS

Disposal method Contact specialist disposal companies. Dissolve or mix the

material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of in accordance with Local Authority requirements.

Recover and reclaim or recycle, if practical.

14 TRANSPORT INFORMATION

General Not classified as dangerous for transport

purposes.

Road transport notesNot classified as dangerous for road transport.

Rail transport notes Not classified as dangerous for rail transport.

Sea transport notesNot classified as dangerous for sea transport.

Air transport notes Not classified as dangerous for air transport.

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

NO-0056 Page: 8/9



Silicon oxide, surface modified with amino group

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Chemical Safety Assessment

no data available

Country specific information:

Classification according to German Regulation VwVwS; Reg.no. 849: non-hazardous to waters

16 OTHER INFORMATION

DISCLAIMER

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NO-0056 Page: 9/9