

alpha-Aluminium oxide powder

Revision Date: 4/4/2017

Date Issued: 5/7/2018

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

Product name alpha-Aluminium oxide powder

Product code NO-0003 **CAS** 1344-28-1

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

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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULTATION (EC) No 1272/2008)

Skin corrosion/irritation, Category 2, H315

Serious eye damage/Eye irritation, Category 2, H319

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

Category 3, H335

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

Harmful by inhalation. Irritating to eyes, respiratory system and skin.

Supplemental Hazard Statements none

2.2 Label elements

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

Pictogram
Signal word
Warning

Hazard statement(s)

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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.

P302 + P352 IF ON SKIN: Wash with plenty of soap and

water.

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

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

Hazard symbol(s)

R-phrase(s)

R20 Harmful by inhalation.

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

S-phrase(s)

S26 In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice.

S36 Wear suitable protective clothing.

Caution - substance not yet tested completely.

3 COMPOSITION / INFORMATION ON INGREDIENTS

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

Aluminium oxide >99% Substance not yet fully tested!

Formula Molecular Weight

Al₂O₃ 101.96 g/mol

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.

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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. Continue to rinse. Get

medical attention immediately.

5 FIRE FIGHTING MEASURES

Extinguishing media Suitable: Water spray. Carbon dioxide, dry

chemical powder, or appropriate foam.

Special fire fighting procedures

Emission of toxic fumes

Unusual fire & explosion hazards

Wear self-contained breathing apparatus as

No special procedures required.

Protective measures in fire

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.

Spill cleanup methods Avoid 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.

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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 tightly closed. Product is very

hygroscopic. Store in dry, well ventilated area.

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).

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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid

Color white

Odor/taste No characteristic odor.

Boiling Point 2,980°C

Melting Point 2,038°C

Vapor Pressure 1 mmHg @ 2000°C

SG/Density 3.7 g/cm³
Solubility in Water insoluble

10 STABILITY AND REACTIVITY

Stability No particular stability concerns.

Conditions to avoid Strong acids and bases, Chlorine trifluoride,

Ethylene oxide, Halocarbons, Oxygen difluoride, Sodium nitrate, Vinyl acetate.

Hazardous Decomposition

Products Consistency of decomposition products

unknown.

11 TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

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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 Harmful if swallowed.

Inhalation May be harmful if inhaled. Material is irritating

tomucous membranes and upper respiratory

tract.

SkinMay cause irritation and allergic reaction.EyesMay cause irritation and allergic reaction.

Additional Information

RTECS: Not available

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

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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. 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 notes

Not classified as dangerous for road transport.

Rail transport notes

Not classified as dangerous for rail transport.

Sea transport notes

Not 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

Chemical Safety Assessment

no data available

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Country specific information:

Germany

Substance No: 1346

non-hazardous to waters

Classification according to the Administrative Regulation of Substances Hazardous to

Water (VwVwS)

16 OTHER INFORMATION

DISCLAIMER

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