

1. Identification of the substance/mixture and of the company/undertaking

Product identifier: Silica gel orange 2-5 mm

Chemical name: Aluminatesilicate
CAS Number: 1327-36-2

| REACH registration number: 01-2119537440-47-0000

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

Relevant identified uses: Solid material for drying of liquids and gases

Details of the supplier of the safety data sheet

Company:
Long Life for Art
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Telephone: +49 173 9149467

2. Hazards Identification

Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

According to Directive 67/548/EEC or 1999/45/EC

Directive 1999/45/EC ('Preparation Directive')

The product does not require a hazard warning label in accordance with EC Directives.

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product.

Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Other Hazards (GHS):

No specific dangers known, if the regulations/notes for storage and handling are considered.

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3. Composition/Information on Ingredients

Substances

Chemical nature

adsorbent

Aluminatesilicate (Content (W/W): $\geq 98\%$ - $\leq 100\%$)

CAS Number: 1327-36-2

EC-Number: 215-475-1

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

No particular hazards known.

4. First-Aid Measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.

Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

Additional information:

Use extinguishing measures to suit surroundings.

Special hazards arising from the substance or mixture

No particular hazards known.

Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Do not breathe dust. Avoid contact with the skin, eyes and clothing. Use personal protective clothing.

Information regarding personal protective measures see, chapter 8.

Environmental precautions

Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

Avoid raising dust. Dampen, pick up mechanically and dispose of. Correctly dispose of recovered product immediately. Reclaim for processing if possible.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

Precautions for safe handling

Avoid dust formation. Avoid inhalation of dusts. Avoid contact with the skin, eyes and clothing. Provide suitable exhaust ventilation at the processing machines.

Protection against fire and explosion:

The substance/product is non-combustible.

Conditions for safe storage, including any incompatibilities

Keep away from water.

Suitable materials for containers: carbon steel (iron), Low density polyethylene (LDPE)

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

The nuisance dust limit value is to be kept.

PNEC

freshwater: 4.1 mg/l

marine water: 0.082 mg/l

intermittent release: 25 mg/l

DNEL

worker:

Short-term exposure - local effects, Inhalation: 3 mg/m³

worker:

Short-term exposure - systemic effects, Inhalation: 3 mg/m³

worker:

Long-term exposure - local effects, Inhalation: 3 mg/m³

worker:

Long-term exposure- systemic effects, Inhalation: 3 mg/m³

Exposure controls

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

Chemical resistant protective gloves (EN 374)

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures

Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	beads
Colour:	colourless to orange
Odour:	odourless
Odour threshold:	not determined
pH value:	4 - 8 (100 g/kg) (as suspension)
Melting point:	> 550 °C
Boiling point:	
	not relevant
Flash point:	
	Non-flammable.
Evaporation rate:	
	not applicable
Flammability:	does not ignite
Lower explosion limit:	
	not applicable
Upper explosion limit:	
	not applicable
Ignition temperature:	
	not applicable
Vapour pressure:	
	(20 °C) negligible
Relative vapour density (air):	
	not applicable
Solubility in water:	practically insoluble (20 °C)
Partitioning coefficient n-octanol/water (log Kow):	
	not applicable
Self-ignition:	not self-igniting
Thermal decomposition:	not determined
Viscosity, dynamic:	
	not applicable
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

Other information

Bulk density: 400 - 900 kg/m³

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Safety data sheet according to Regulation (EC) no. 1907/2006

Silica gel orange 2-5 mm

Corrosion to metals: No corrosive effect on metal.
Formation of flammable gases: Remarks: Forms no flammable gases in the presence of water.

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

Addition of water leads to increase in temperature.
The product is chemically stable.

Conditions to avoid

Avoid dust formation. Avoid deposition of dust.

Incompatible materials

Substances to avoid:
Water

Hazardous decomposition products

Hazardous decomposition products:
No hazardous decomposition products known.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:
Of low toxicity after single ingestion.

Experimental/calculated data:
LD50 rat (oral): > 2,000 mg/kg (OECD Guideline 423)
The product has not been tested. The statement has been derived from products of a similar structure or composition.

LC50 rat (by inhalation): > 2.07 mg/l 4 h (other)
The product has not been tested. The statement has been derived from products of a similar structure or composition. An aerosol was tested.

LD50 rabbit (dermal): > 5,000 mg/kg (other)
The product has not been tested. The statement has been derived from products of a similar structure or composition.

Irritation

Assessment of irritating effects:
Not irritating to the eyes. Not irritating to the skin.

Safety data sheet according to Regulation (EC) no. 1907/2006

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Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Germ cell mutagenicity

Assessment of mutagenicity:

Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity:

In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Reproductive toxicity

Assessment of reproduction toxicity:

Study scientifically not justified.

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: No data available.

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

Assessment of repeated dose toxicity:

The substance may cause damage to the lung after repeated inhalation of high doses. The product has not been tested. The statement has been derived from products of a similar structure or composition. The data on toxicology refer to the active ingredient.

Aspiration hazard

not applicable

Other relevant toxicity information

The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

The product has not been tested. The statement has been derived from products of a similar structure or composition.

Microorganisms/Effect on activated sludge:

Study scientifically not justified.

Assessment of terrestrial toxicity:

Study scientifically not justified.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Inorganic product which cannot be eliminated from water by biological purification processes.

Study does not need to be conducted.

Assessment of stability in water:

Study does not need to be conducted.

Bioaccumulative potential

Assessment bioaccumulation potential:

Accumulation in organisms is not to be expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

Study scientifically not justified.

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): Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria. Self classification

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling vPvB (very persistent/very bioaccumulative) criteria. Self classification

13. Disposal Considerations

Waste treatment methods

Used catalysts may have different hazardous properties than the original products.

Observe national and local legal requirements.

Contact specialized companies about recycling.

Safety data sheet according to Regulation (EC) no. 1907/2006

Silica gel orange 2-5 mm

Contaminated packaging:

Dispose of in accordance with national, state and local regulations.

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

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

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. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. 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.