

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Revision Date 26.10.2017

Version 1.2

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

1.1 Product identifier

| Catalogue No. | 103803 |
|---------------|--|
| Product name | Desiccant sachet 3 g silica gel with humidity indicator (orange gel) |
| | sachet: 4 x 7 cm |

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

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

| Identified uses | Reagent for development and research |
|-----------------|--|
| | For additional information on uses please refer to the Merck Chemicals |
| | portal (www.merckgroup.com). |

1.3 Details of the supplier of the safety data sheet

| Company | Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0 |
|--------------------------------|---|
| Responsible Department | LS-QHC * e-mail: prodsafe@merckgroup.com |
| 1.4 Emergency telephone number | Please contact the regional company representation in your country. |

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

This mixture is not classified as dangerous according to European Union legislation.

according to Regulation (EC) No. 1907/2006

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

| Chemical nature | silica gel preparation |
|-----------------|------------------------|
|-----------------|------------------------|

3.1 Substance

Not applicable

3.2 Mixture

Remarks

No disclosure requirement according to Regulation (EC) No. 1907/2006.

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

The Safety Data Sheets for catalogue items are available at www.merckgroup.com

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4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

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Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed. Dry.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

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Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection not required

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Form | granules |
|--------|----------|
| | |
| Colour | orange |

according to Regulation (EC) No. 1907/2006

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|--|--|
| Odour | odourless |
| Odour Threshold | Not applicable |
| рН | No information available. |
| Melting point | > 1.000 °C |
| Boiling point | No information available. |
| Flash point | No information available. |
| Evaporation rate | No information available. |
| Flammability (solid, gas) | The product is not flammable. |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Vapour pressure | No information available. |
| Relative vapour density | No information available. |
| Density | No information available. |
| Relative density | No information available. |
| Water solubility | No information available. |
| Partition coefficient: n- octanol/water | No information available. |
| Auto-ignition temperature | No information available. |

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| | |
| Decomposition temperature | 823 °C |
| Viscosity, dynamic | No information available. |
| Explosive properties | Not classified as explosive. |
| Oxidizing properties | none |
| 9.2 Other data | |
| none | |

SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

no information available

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

no information available

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SECTION 11. Toxicological information

| | 1 Information on toxicological effects Mixture |
|---|--|
| / | Acute oral toxicity |
| ٦ | This information is not available. |
| / | Acute inhalation toxicity |
| ٦ | This information is not available. |
| / | Acute dermal toxicity |
| ٦ | This information is not available. |
| | Skin irritation |
| ٦ | This information is not available. |
| L | Eye irritation |
| ٦ | This information is not available. |
| ŝ | Sensitisation |
| ٦ | This information is not available. |
| (| Germ cell mutagenicity |
| ٦ | This information is not available. |
| (| Carcinogenicity |
| ٦ | This information is not available. |
| | Reproductive toxicity |
| ٦ | This information is not available. |
| | Teratogenicity |
| ٦ | This information is not available. |
| | Specific target organ toxicity - single exposure |
| ٦ | This information is not available. |
| | Specific target organ toxicity - repeated exposure |
| ٦ | This information is not available. |

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Aspiration hazard

This information is not available.

11.2 Further information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

Mixture

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

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SECTION 13. Disposal considerations

| Waste treatment methods |
|-------------------------|
|-------------------------|

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

| SECTION 14. Transport information | | | | |
|---|--|--|--|--|
| Land transport (ADR/RID) | | | | |
| 14.1 - 14.6 | Not classified as dangerous in the meaning of transport regulations. | | | |
| Inland waterway transport (ADN) | | | | |
| Not relevant | | | | |
| Air transport (IATA) | | | | |
| 14.1 - 14.6 | Not classified as dangerous in the meaning of transport regulations. | | | |
| Sea transport (IMDG) | | | | |
| 14.1 - 14.6 | Not classified as dangerous in the meaning of transport regulations. | | | |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | | | | |

Not relevant

SECTION 15. Regulatory information

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

| EU regulations | | |
|-----------------------|----------------|--|
| Major Accident Hazard | SEVESO III | |
| Legislation | Not applicable | |

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| roduct name | 103803 Desiccant sachet 3 g silica gel with humidity indicator (orange gel) sachet: 4 x 7 cm | |
|---|--|---|
| Regulation (EC) No 1005/2009 on s deplete the ozone layer | substances that | not regulated |
| Regulation (EC) No 850/2004 of the Parliament and of the Council of 29 persistent organic pollutants and an Directive 79/117/EEC | April 2004 on | not regulated |
| Substances of very high concern (S | VHC) | This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of \ge 0.1 % (w/w). |
| <i>National legislation</i> Storage class 10 - ⁻ | 13 | |

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Training advice Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

according to Regulation (EC) No. 1907/2006

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This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.