SIGMA-ALDRICH

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 08.06.2012 Print Date 03.09.2014

| 1. | IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING | | |
|--|---|--|--|
| 1.1 | Product identifiers Product name | · Poly(ethylene glycol) | |
| | Product Number Brand CAS-No. | : 81260 : Aldrich : 25322-68-3 | |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | | |
| | Identified uses | : Laboratory chemicals, Manufacture of substances | |
| 1.3 | Details of the supplier of the safety data sheet | | |
| | Company | Sigma-Aldrich Company Ltd. The Old Brickyard NEW ROAD, GILLINGHAM Dorset SP8 4XT UNITED KINGDOM | |
| | Telephone Fax E-mail address | : +44 (0)1747 833000 : +44 (0)1747 833313 : eurtechserv@sial.com | |
| 1.4 Emergency telephone number | | ber | |
| | Emergency Phone # | : +44 (0)1747 833100 | |
| 2. | HAZARDS IDENTIFICATION | | |
| 2.1 Classification of the substance or mixture | | | |
| | Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC. | | |
| 2.2 Label elements | | | |
| | The product does not need to be labelled in accordance with EC directives or respective national laws. | | |
| 2.3 | Other hazards - none | | |
| 3. | COMPOSITION/INFORMATION ON INGREDIENTS | | |
| 3.1 | Substances Synonyms | : PEG | |
| | Formula | : (C2H4O)nH2O | |
| 4. | FIRST AID MEASURES | | |
| 4.1 Description of first aid measures | | sures | |
| | If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. | | |

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides

5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions Do not let product enter drains.

- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

7.1 **Precautions for safe handling** Provide appropriate exhaust ventilation at places where dust is formed.

- **7.2** Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- 7.3 Specific end uses no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls General industrial hygiene practice.

Personal protective equipment

Eye/face protection

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.

Immersion protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested:Dermatril® (Aldrich Z677272, Size M)

Splash protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 30 min Material tested:Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| a) | Appearance | Form: flakes | | |
|-------|--|---------------------------------|--|--|
| b) | Odour | no data available | | |
| c) | Odour Threshold | no data available | | |
| d) | рН | no data available | | |
| e) | Melting point/freezing point | Melting point/range: 60 - 63 °C | | |
| f) | Initial boiling point and boiling range | no data available | | |
| g) | Flash point | no data available | | |
| h) | Evaporation rate | no data available | | |
| i) | Flammability (solid, gas) | no data available | | |
| j) | Upper/lower flammability or explosive limits | no data available | | |
| k) | Vapour pressure | no data available | | |
| I) | Vapour density | no data available | | |
| m) | Relative density | no data available | | |
| 91260 | | | | |

| | n) | Water solubility | no data available | | |
|---|---|---|---|--|--|
| | o) | Partition coefficient: n- octanol/water | no data available | | |
| | p) | Autoignition temperature | no data available | | |
| | q) | Decomposition temperature | no data available | | |
| | r) | Viscosity | no data available | | |
| | s) | Explosive properties | no data available | | |
| | t) | Oxidizing properties | no data available | | |
| 9.2 Other safety information no data available | | | | | |
| 10. | STABILITY AND REACTIVITY | | | | |
| 10.1 | Reactivity no data available | | | | |
| 10.2 | Chemical stability no data available | | | | |
| 10.3 | Possibility of hazardous reactions no data available | | | | |
| 10.4 | | nditions to avoid data available | | | |
| 10.5 | Incompatible materials Strong oxidizing agents | | | | |
| 10.6 | Hazardous decomposition products Other decomposition products - no data available | | | | |
| 11. | то | XICOLOGICAL INFORM | ATION | | |
| 11.1 | Infe | ormation on toxicologica | al effects | | |
| | Acute toxicity no data available | | | | |
| | | n corrosion/irritation data available | | | |
| | Serious eye damage/eye irritation no data available | | | | |
| | | spiratory or skin sensitiz data available | zation | | |
| | | rm cell mutagenicity data available | | | |
| | Ca | rcinogenicity | | | |
| | IAF | | f this product present at levels greater than or equal to 0.1% is identified as le or confirmed human carcinogen by IARC. | | |
| | | Reproductive toxicity no data available | | | |
| | | Specific target organ toxicity - single exposure no data available | | | |
| | | ecific target organ toxici data available | ty - repeated exposure | | |
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Aspiration hazard no data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if swallowed. Indestion Skin May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. Eves **Additional Information RTECS:** Not available 12. **ECOLOGICAL INFORMATION** 12.1 Toxicity no data available 12.2 Persistence and degradability no data available 12.3 **Bioaccumulative potential** no data available 12.4 Mobility in soil no data available Results of PBT and vPvB assessment 12.5 no data available 12.6 Other adverse effects no data available 13. **DISPOSAL CONSIDERATIONS** 13.1 Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. **Contaminated packaging** Dispose of as unused product. 14. TRANSPORT INFORMATION 14.1 **UN number** ADR/RID: -IMDG: -IATA: -14.2 UN proper shipping name ADR/RID: Not dangerous goods Not dangerous goods IMDG: IATA: Not dangerous goods 14.3 Transport hazard class(es) ADR/RID: -IMDG: -IATA: -Packaging group 14.4 ADR/RID: -IMDG: -IATA: -14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no Special precautions for user 14.6 no data available

15. REGULATORY INFORMATION

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

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- 15.2 Chemical Safety Assessment no data available

16. OTHER INFORMATION

Further information

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