Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.07.2013 Revision: 30.07.2009

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

1.1 Product identifier

2,2-Dimethyl-1,3-propanediol A10340, L05535 126-30-7

1.1 Product identified
Trade name
Stock number:
CAS Number:
126-30-7
1.2 Relevant identified uses of the substance or mixture and uses advised against.
SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com www.alfa.com

Informing department:

www.ana.com
Product safety Tel + +049 (0) 7275 988687-0
Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)
Poison Information Center Mainz
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240 1.4 Emergency telephone number:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

Risk of serious damage to eyes. Information concerning particular hazards

for human and environment: Other hazards that do not result in classification

No information known.

Not applicable

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

GHS05

Signal word Hazard statements

Danger H318 Causes serious eye damage.

Precautionary statements

P310 Wear protective 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.
P310 Immediately call a POISON CENTER or doctor/physician.

The substance is classified and labelled according to the CLP regulation.

2.3 Other hazards
Results of PBT and vPvB assessment

vPvR:

Not applicable. Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: 126-30-7 2,2-Dimethyl-1,3-propanediol

SECTION 4: First aid measures

4.1 Description of first aid measures After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

persist. Seek immediate medical advice.

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. After skin contact

After eye contact

After swallowing 4.2 Most important symptoms and effects,

both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment.

No further relevant information available. No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide

5.3 Advice for mong... Protective equipment: .3 Advice for firefighters Wear self-contained breathing apparatus.

Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not allow material to be released to the environment without proper governmental permits. 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.

6.3 Methods and material for containment and cleaning up:
Prevention of secondary hazards:

6.4 Reference to other sections

Collect mechanically.

No special measures required.
See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Keep containers tightly sealed.

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Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

No information known. 7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and

containers: Information about storage in one common

storage facility:

No special requirements.

Store away from oxidizing agents.

Store away from water.

Further information about storage

conditions:

This product is hygroscopic.

Store under dry inert gas.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Protect from humidity and keep away from water.
No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of

technical systems:

7.3 Specific end use(s)

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

8.1 Control parameters Components with critical values that require monitoring at the workplace: Additional information:

Not required.

No data

8.2 Exposure controls

Personal protective equipment General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes.
Maintain an ergonomically appropriate working environment.
Use breathing protection with high concentrations.
Check protective gloves prior to each use for their proper condition.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Breathing equipment: Protection of hands:

and varies from manufacturer to manufacturer. Impervious gloves Not determined

Penetration time of glove material

Eve protection: Body protection:

Material of gloves

Tightly sealed safety glasses. Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Form: Colour: Crystalline White Mild Smell: Odour threshold: Not determined.

pH-value:

Not applicable. Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 125-130 °C 210-212 °C Not determined 103 °C Flash point: Not determined.

Inflammability (solid, gaseous) Ignition temperature:
Decomposition temperature:

375 °C Not determined Self-inflammability: Not determined. Danger of explosion: Critical values for explosion: Product is not explosive.

Lower: Upper: Steam pressure: Density at 20 °C Relative density Vapour density

1,1 Vol % 11,4 Vol % Not applicable. 1,042 g/cm³ Not determined. Not applicable. Not applicable.

Evaporation rate
Solubility in / Miscibility with
Water at 20 °C:

830 g/l Soluble Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not applicable. kinematic

Not applicable. No further relevant information available 9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability

Thermal decomposition / conditions to be

avoided: 10.3 Possibility of hazardous reactions 10.5 Incompatible materials:

10.6 Hazardous decomposition products:

No information known.

Stable under recommended storage conditions.

No decomposition if used and stored according to specifications.

No dangerous reactions known

Oxidizing agents Water/moisture

Carbon monoxide and carbon dioxide

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD/LC50 values that are relevant for classification:

Skin irritation or corrosion:

Generally the product does not irritate the skin.

Eye irritation or corrosion: Sensitization: Causes serious eye damage. No sensitizing effect known. No effects known.

Germ cell mutagenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Carcinogenicity:

Reproductive toxicity: Specific target organ system toxicity -No effects known.

repeated exposure: Specific target organ system toxicity - single

exposure:
Aspiration hazard:
Additional toxicological information:

No effects known. No effects known.

No effects known.

No data

No effects known.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

SECTION 12: Ecological information

12.1 Toxicity

12.1 Toxicity:
12.2 Persistence and degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available

Additional écological information:

General notes:

Do not allow material to be released to the environment without proper governmental permits. Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment

PBT: vPvB:

12.6 Other adverse effects

Not applicable.

Not applicable. No further relevant information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

None

None

Uncleaned packagings:

Recommendation:
Recommended cleaning agent: Disposal must be made according to official regulations. Water, if necessary with cleaning agent.

SECTION 14: Transport information

UN-Number ADR, IMDG, IATA

14.2 UN proper shipping name ADR, IMDG, IATA

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class

Packing group ADR, IMDG, IATA 14.5 Environmental hazards:

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

None None

Not applicable

Not applicable.

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

SECTION 15: Regulatory information

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

Australian Inventory of Chemical Substances

Standard for the Uniform Scheduling of Drugs and Poisons

National regulations

Substance is listed. Substance is not listed.

Information about limitation of use:

Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical

Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances 15.2 Chemical safety assessment:

Substance is not listed.

Substance is not listed.

Substance is listed.

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other informationEmployers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet:
Abbreviations and acronyms:

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

DE/E -

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