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

Printing date 01.07.2013 Revision: 16.01.2007

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

1.1 Product identifier

1.1 Product identified
Trade name
Stock number:
CAS Number:
A16588
CAS Number:
702-98-7
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

Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Manufacturer/Supplier:

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

The substance is not classified as hazardous to health or the environment according to the CLP regulation.

Classification according to Directive 67/548/ EEC or Directive 1999/45/EC Information concerning particular hazards

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

classification No information known.

2.2 Label elements
Labelling according to Regulation (EC) No
1272/2088

Hazard pictograms Signal word

Not applicable Not applicable Not applicable Not applicable

Not applicable

Not applicable

Hazard statements 2.3 Other hazards Results of PBT and vPvB assessment

PRT-

Not applicable. Not applicable. vPvB:

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS# Designation: 702-98-7 2-Methyl-2-adamantanol

SECTION 4: First aid measures

4.1 Description of first aid measures

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

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

After skin contact

Seek immediate medical advice

Seek medical tréatment.

After eve 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

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

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

If this product is involved in a fire, the following can be released: arbon monoxide and carbon dioxide

5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.2 Environmental precautions:

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not allow material to be released to the environment without proper governmental permits.
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.

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

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. Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires:

7.2 Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and

containers: Information about storage in one common storage facility:

No special requirements.

Store away from oxidizing agents.

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(Contd. of page 1)

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## Trade name 2-Methyl-2-adamantanol

Further information about storage

conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. No further relevant information available.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

Additional information about design of

technical systems:

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. 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. Impervious gloves

Breathing equipment: Protection of hands:

Material of gloves Penetration time of glove material Impervious gloves Not determined Eye protection: Body protection: 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 powder White Not determined Smell: Odour threshold: Not determined pH-value: Not applicable.

Change in condition
Melting point/Melting range:
Boiling point/Boiling range: 215-217 °C Not determined Sublimation temperature / start: Not determined

Not applicable Not determined Flash point: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined Self-inflammability: Not determined

Danger of explosion: Critical values for explosion:

Lower: Not determined Not determined Upper: Steam pressure: Not applicable. Density Relative density Not determined Not determined. Vapour density Not applicable. Evaporation rate Solubility in / Miscibility with Not applicable. Not determined Not determined.

Partition coefficient (n-octanol/water): Viscosity:

dynamic: kinematic Not applicable

Not applicable.
No further relevant information available 9.2 Other information

SECTION 10: Stability and reactivity

No information known. Stable under recommended storage conditions.

Product is not explosive.

10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions 10.5 Incompatible materials:

No dangerous reactions known Oxidizing agents Carbon monoxide and carbon dioxide

10.6 Hazardous decomposition products:

SECTION 11: Toxicological information

11.1 Information on toxicological effects

No effects known.

Acute toxicity: LD/LC50 values that are relevant for

classification:

No data

May cause irritation Skin irritation or corrosion: Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effect known.

Germ cell mutagenicity: No effects known.

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

Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single

No effects known. exposure: Aspiration hazard: No effects known.

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Trade name 2-Methyl-2-adamantanol

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

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SECTION 12: Ecological information

12.1 Toxicity Aquatic 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 ecological 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.

Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

ADR, IMDG, IATA

UN-Number

None

None

14.2 UN proper shipping name ADR, IMDG, IATA

14.3 Transport hazard class(es)

ADR, IMDG, IATA Class

Packing group ADR, IMDG, IATA

None

None

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

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

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

Substance is not listed. Substance is not listed.

National regulations Information about limitation of use:

For use only by technically qualified individuals.

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

Water hazard class:
Other regulations, limitations and prohibitive regulations
ELINCS (European List of Notified Chemical
Substances)
Substance is

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 not listed.

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**Employers 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: Health, Safety and Environmental Department.

Abbreviations and acronyms:

Department issuing data specification sheet: Health, Safety and Environmental Department.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDE: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Hamonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

DE/E-

DE/E