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

Printing date 02.07.2013 Revision: 30.04.2013

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

1.1 Product identifier

Trade name
Stock number:
CAS Number:
1.2 Relevant identified uses of the substance Methyl cellulose

9004-67-5

or mixture and uses advised against.

No further relevant information available Identified use: 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 Zeppelinsti. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com

Informing department:

www.alfa.com
www.alfa.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

Not applicable No information known.

Not applicable

Not applicable Not applicable Not applicable

Not applicable

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms

Signal word Hazard statements 2.3 Other hazards

Results of PBT and vPvB assessment

PB₁ vPvB:

Not applicable. Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation: 9004-67-5 Methyl cellulose

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 persist. Seek immediate medical advice

After skin contact

Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice

After eye contact After swallowing

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

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

5.3 Advice for firefighters Protective equipment:

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

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

Carbon monoxide and carbon dioxide

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.

6.2 Environmental precautions:

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.

6.3 Methods and material for containment

and cleaning up: Prevention of secondary hazards: 6.4 Reference to other sections

Collect mechanically.

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

No information known.

explosions and fires:

7.2 Conditions for safe storage, including any incompatibilities

Storage Requirements to be met by storerooms and

containers:

No special requirements.

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Trade name *Methyl cellulose*

Information about storage in one common

storage facility: Further information about storage

conditions:

Store away from oxidizing agents.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored

at the workplace. No data

Additional information:

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.

Breathing equipment: Protection of hands:

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

Material of gloves Penetration time of glove material Eye protection: Not determined Safety glasses Protective work clothing. Body protection:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information Appearance: Form: Colour: Powder White Odourless Smell: Odour threshold: Not determined. Not applicable pH-value:

Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Inflammability (solid, gaseous)
Ignition temperature:
Decomposition temperature:
Self-inflammability: Not determined. Not determined Not determined Not determined. Critical values for explosion:

Not determined Lower: Upper: Steam pressure: Not determined Not applicable. Density Relative density Not determined Not determined. Vapour density Not applicable. Not applicable.

Evaporation rate Solubility in / Miscibility with Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity:

dynamic: kinematic

Not applicable. Not applicable. No further relevant information available 9.2 Other information

SECTION 10: Stability and reactivity

No information known.

10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be Stable under recommended storage conditions.

avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions 10.5 Incompatible materials: 10.6 Hazardous decomposition products: Reacts with strong oxidizing agents Oxidizing agents Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product.

LD/LC50 values that are relevant for classification:

Skin irritation or corrosion:

May cause irritation May cause irritation No sensitizing effect known. No effects known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA

No data

Eye irritation or corrosion: Sensitization: Germ cell mutagenicity: Carcinogenicity:

Reproductive toxicity

Specific target organ system toxicity -

repeated exposure: Specific target organ system toxicity - single

Aspiration hazard:

or ACGIH. No effects known. No effects known.

No effects known.

No effects known.

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Trade name *Methyl cellulose*

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:

Not applicable

Not applicable

Not applicable

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

UN-Number ADR, ADN, IMDG, IATA

Not applicable

14.2 UN proper shipping name ADR, ADN, IMDG, IATA

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA Class

Packing group ADR, IMDG, IATA Not applicable 14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user

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

Code

Not applicable

UN "Model Regulation":

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

Information about limitation of use:

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 listed. Substance is not listed.

For use only by technically qualified individuals.

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

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: Health, Safety and Environmental Department.

Abbreviations and acronyms:

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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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

LC50: Lethal contration, 50 percent

DE/E