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

Printing date 01.07.2013 Revision: 23.10.2006

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

3-(Trifluoromethyl)phenyltrimethylammoniumhydroxide 5% w/v in methanol 1.1 Product identifier

Trade name Stock number: CAS Number: EC number: 68254-41-1 200-659-6 603-001-00-X Index number

1.2 Relevant identified uses of the substance or mixture and uses advised against. Identified use:

No further relevant information available. SU24 Scientific research and development

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG

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:

Product safety Tel + +049 (0) 7275 988687-0
Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number)
Poison Information Center Mainz 1.4 Emergency telephone number:

www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240

#### SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 1 H224 Extremely flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 2 H330 Fatal if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to the eyes and the brain. Route of exposure: Oral and Inhalative, Dermal.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

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

🖳 T; Toxic

R23/24/25-39/23/24/25: Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in

contact with skin and if swallowed.

C; Corrosive

R34: Causes burns.

👸 F; Highly flammable

Highly flammable. Information concerning particular hazards for human and environment:

Other hazards that do not see the

Other hazards that do not result in classification

Not applicable

No information known.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms Signal word **Hazard statements** 

Precautionary statements

The substance is classified and labelled according to the CLP regulation. GHS02, GHS05, GHS06, GHS08

H224 Extremely flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin.

H301 Toxic in contact with skin.
H310 Toxic in contact with skin.
H330 Fatal if inhaled.
H314 Causes severe skin burns and eye damage.
H370 Causes damage to the eyes and the brain. Route of exposure: Oral and Inhalative, Dermal.
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2.3 Other hazards Results of PBT and vPvB assessment

PBT: Not applicable. Not applicable. vPvB:

SECTION 3: Composition/information on ingredients

3.1 Substances CAS# Designation:

68254-41-1 3-(Trifluoromethyl)phenyltrimethylammoniumhydroxide 5% w/v

in methanol

Identification number(s):

200-659-6 EC number Index number: 603-001-00-X Safety data sheet according to 1907/2006/EC, Article 31

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## Trade name 3-(Trifluoromethyl)phenyltrimethylammoniumhydroxide 5% w/v in methanol

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SECTION 4: First aid measures

4.1 Description of first aid measures General information

After inhalation

After skin contact

Instantly remove any clothing soiled by the product.

Remove breathing apparatus only after soiled clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

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. Seek immediate medical advice.

Rinse opened eye for several minutes under running water. Then consult doctor. Do not induce vomiting; instantly call for medical help.

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

No further relevant information available No further relevant information available

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing agents

Alcohol-resistant foam Carbon dioxide
Fire-extinguishing powder

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 Hydrogen fluoride (HF) Nitrogen oxides (NOx)

5.3 Advice for mengine 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

6.2 Environmental precautions:

Keep away from ignition sources 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:

Keep away from ignition sources.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.

Prevention of secondary hazards: 6.4 Reference to other sections

Keep away from ignition sources.
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. Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.

Information about protection against explosions and fires:

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

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:

Store in cool location.

Store away from oxidizing agents. Store away from acid chlorides. Store away from acid anhydrides.

Further information about storage

conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.

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:

Methyl alcohol

200; 250-STEL (skin) 200 (skin) 200; 250-STEL (skin) 200; 250-STEL (skin) 200; 250-STEL (skin) 200; 1000-VLE 200 50 mg/m3; 100 mg/m3-STEL (skin) 200; 250-STEL (skin) 200; 250-STEL (skin) 100; 200 (skin) 100 100; 300-STEL ACGIH TLV Austria MAK Belgium TWA Denmark TWA Finland TWA France VME

Germany TWA Hungary TWA Ireland TWA Japan OEL Korea TLV Netherlands MAC Norway TWA Poland TWA 100; 300-STEL

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200; 5 mg/m3-STEL (skin) 200; 250-KTV (skin) 200; 400-STEL (skin) /A 200; 250-STEL (skin) Russia TWA Sweden NGV Switzerland TWA

United Kingdom TWA OSHA PEL 20 200

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. Store protective clothing separately. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Use self-contained respiratory protective device in emergency situations. 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:

**Body protection:** 

Material of gloves Penetration time of glove material

Eye protection:

Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing.

Not determined Not determined Not determined Not determined

Not determined.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**General Information** 

Appearance: Form: Smell:

Solution Not determined Odour threshold: Not determined pH-value: Not determined.

Change in condition
Melting point/Melting range:
Boiling point/Boiling range:
Sublimation temperature / start: Flash point:

Ignition temperature: Decomposition temperature: Not determined Not determined Self-inflammability: Critical values for explosion: Not determined. Lower: Not determined Upper: Steam pressure: Not determined Not determined Density Not determined Relative density Not determined. Vapour density
Evaporation rate
Solubility in / Miscibility with Not determined. Not determined.

Inflammability (solid, gaseous)

Heating occurs when water is added Fully miscible Fully miscible Alcohols: Partition coefficient (n-octanol/water): Viscosity: Not determined.

dynamic: Not determined. kinematic Not determined.

9.2 Other information No further relevant information available

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:

No information known.

Stable under recommended storage conditions.

No decomposition if used and stored according to specifications.

No dangerous reactions known Oxidizing agents Acid chlorides

Acid anhydrides
Reducing agents
Carbon monoxide and carbon dioxide
Hydrogen fluoride
Nitrogen oxides (NOx)

10.6 Hazardous decomposition products:

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Danger by skin resorption. Fatal if inhaled.

Toxic in contact with skin.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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

Causes severe skin burns.

Causes serious eye damage. No sensitizing effect known. No effects known.

LD/LC50 values that are relevant for

classification:

Skin irritation or corrosion: Eye irritation or corrosion:

Sensitization: Germ cell mutagenicity:

Carcinogenicity:

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

No effects known.

Irritant effect.

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Specific target organ system toxicity - single

exposure:

Aspiration hazard: Additional toxicological information:

Causes damage to the eyes and the brain. Route of exposure: Oral and Inhalative, Dermal.

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
Aquatic toxicity:
12.2 Persistence and degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
Additional ecological information:

General notes:

Do not allow product to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits. Water hazard class 2 (Self-assessment): hazardous for water. Danger to drinking water if even small quantities leak into soil. 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

No further relevant information available No further relevant information available. No further relevant information available. 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:

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

UN2924

2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (methanol / trifluoromethylphenyltrimethylammoniumhydroxide) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (methanol / trifluoromethylphenyltrimethylammoniumhydroxide)

## 14.3 Transport hazard class(es)

**ADR** 





Class

IMDG, IATA

Class Label

Packing group ADR, IMDG, IATA

14.5 Environmental hazards:

14.6 Special precautions for user Kemler Number: 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC

Transport/Additional information:

ADR Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code

UN "Model Regulation":

3 (FC) Flammable liquids. 3+8

3 Flammable liquids. 3+8

Not applicable.

Warning: Flammable liquids. 338

Not applicable.

E2 1L D/F

UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (methanol / trifluoromethylphenyltrimethylammoniumhydroxide), 3 (8), II

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical Substances Substance is not listed.

Standard for the Uniform Scheduling of Drugs and Poisons

National regulations Information about limitation of use: Substance is not listed.

For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed. Water hazard class 2 (Self-assessment): hazardous for water.

Water hazard class:

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

Substances)
Substances of very high concern (SVHC)
according to REACH, Article 57
REACH - Pre-registered substances

Substance is not listed.

Substance is not listed. Substance is not listed.

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## Trade name 3-(Trifluoromethyl)phenyltrimethylammoniumhydroxide 5% w/v in methanol

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. (Contd. of page 4)

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:
Abbreviations and acronyms:

Abbreviations and acronyms:

ABBREVIATION OF THE CONTINUATION With any other product of process, is the responsibility of the diser.

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