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

1.1 Product identifier

1-Methoxy-2-propanol Trade name

Stock number: L12694 CAS Number: EC number: 107-98-2 203-539-1 603-064-00-3 Index number

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

Identified use:

SU24 Scientific research and develope 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 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com

Informing department:

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 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. 3 H226 Flammable liquid and vapour.

GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

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

R10-67: Flammable. Vapours may cause drowsiness and dizziness. Information concerning particular hazards for human and environment:

Has a narcotizing effective and environment of the properties of the properti Has a narcotizing effect.

Other hazards that do not result in classification

No information known.

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

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

**GHS02 GHS07** 

Signal word

Hazard statements

Warning
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.

Pamove/Take off immediately all contaminated of the contamina Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

.3 Other hazards

Results of PBT and vPvB assessment

PBT Not applicable. vPvR Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS# Designation: Identification number(s): 107-98-2 1-Methoxy-2-propanol

EC number:

203-539-1 603-064-00-3 Index number:

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

After skin contact

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

No further relevant information available

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

Seek medical treatment.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

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:

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## Trade name 1-Methoxy-2-propanol

Carbon 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

Wear protective equipment. Keep unprotected persons away.

Results and suppression to the control of the contr 6.2 Environmental precautions:

6.3 Methods and material for containment

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.

Information about protection against explosions and fires:

Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away - Do not smoke.

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: Further information about storage

conditions:

No special requirements.

Store away from oxidising 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:

107-98-2 1-Methoxy-2-propanol (100,0%)

AGW (Germany) Long-term value: 370 mg/m³, 100 ppm 2(I);DFG, EU, Y

Short-term value: 540 mg/m³, 150 ppm Long-term value: 360 mg/m³, 100 ppm Short-term value: 369 mg/m³, 100 ppm Long-term value: 184 mg/m³, 50 ppm REL (USA)

TLV (USA)

Ingredients with biological limit values: 107-98-2 1-Methoxy-2-propanol (100,0%)

BGW (Germany) 15 mg/l
Untersuchungsmaterial: Urin
Probennahmezeitpunkt: Expositionsende bzw. Schichtende
Parameter: 1-Methoxypropan-2-ol

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. 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:

4-7

35 °C

Material of gloves Penetration time of glove material Eye protection:

Impervious gloves Not determined Safety glasses Face protection 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: Colourless Alcohol-like Smell: Odour threshold: Not determined.

pH-value (200 g/l) at 20 °C:

Change in condition
Melting point/Melting range:

-100 °C 119-120 °C Boiling point/Boiling range: Sublimation temperature / start: Not determined

Flash point:

Inflammability (solid, gaseous)
Ignition temperature: Not determined. 270 °C

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## Trade name 1-Methoxy-2-propanol

Decomposition temperature: Self-inflammability: Not determined Not determined.

Product is not explosive. However, formation of explosive air/steam mixtures is possible.

Danger of explosion: Critical values for explosion:

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

Vapour density Evaporation rate Solubility in / Miscibility with Water

Partition coefficient (n-octanol/water): Viscosity: dynamic at 20 °C:

kinematic: 9.2 Other information

0,926 g/cm<sup>3</sup> Not determined. Not determined. Not determined. Fully miscible

Not determined. 1.9 mPas Not determined.

No data

May cause irritation May cause irritation

No effects known.

No effects known.

No sensitizing effect known. No effects known.

May cause drowsiness or dizziness.

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

2,3 Vol % 20 Vol % 13 hPa

No further relevant information available

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be

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. Reacts with strong oxidizing agents Oxidising agents Carbon monoxide and carbon dioxide

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

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this

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

#### SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: 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: Specific target organ system toxicity - single

exposure:

spiration hazard:

Subacute to chronic toxicity:

Additional toxicological information:

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:

Recommendation

PRT.

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

vPvB: 12.6 Other adverse effects

SECTION 13: Disposal considerations

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 Disposal must be made according to official regulations.

UN3092

3092 1-METHOXY-2-PROPANOL 1-METHOXY-2-PROPANOL

Uncleaned packagings: Recommendation

13.1 Waste treatment methods

Recommended cleaning agent: 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** 

3 (F1) Flammable liquids. Class

(Contd. on page 4)

Trade name 1-Methoxy-2-propanol	
	(Contd. of page 3)
IMDG, IATA	
<b>8</b>	
Class Label	3 Flammable liquids.
Packing group ADR, IMDG, IATA	<b></b>
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Kemler Number: EMS Number:	Warning: Flammable liquids. 30 F-E,S-D
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IB Code	C Not applicable.
Transport/Additional information:	
ADR Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code	E1 5L 3 D/E
UN "Model Regulation":	UN3092, 1-METHOXY-2-PROPANOL, 3, III

#### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical

Substances

Substances
Standard for the Uniform Scheduling of
Medicines and Poisons
National regulations
Information about limitation of use:
Classification according to VbF:
Technical instructions (air):

Substance is listed. Substance is not listed.

For use only by technically qualified individuals.

Class Share in % 100,0 NK

Water hazard class:
Other regulations, limitations and prohibitive regulations
ELINCS (European List of Notified Chemical Substances)
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC)
No. 1907/2006.
REACH - Pre-registered substances
15.2 Chemical safety assessment:

Water hazard
Substance is
Substance is
Substance is
A Chemical Substance is

Substance is not listed.

Substance is not listed. Substance is 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.

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

Department issuing SDS: Abbreviations and acronyms:

A Sheet, or in combination with any other product or process, is the responsibility of the user.

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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

VbF: Verordnung über brennbare Flüssigkeiten, Osterreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal dose, 50 percent

LD50: Lethal dose, 50 percent

LD50: Lethal dose, 50 percent

VbR: very Persistent and very Bioaccumulative

ACGIH: American Conference of Governmental Industrial Hygienists (USA)

OSHA: Occupational Safety and Health Administration (USA)

IATC: International Agency for Research on Cancer

EPA: Environmental Protection Agency (USA)

Flam. Liq. 3: Flammable liquids, Alazard Category 3

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3