

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 24 Apr 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

2-Methoxy-1-propanol

1.1. Catalog No.:

690992

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Regulation (EC) No 1272/2008
Skin corrosion/irritation Category 2 - (H315)
Serious eye damage/eye irritation Category 1 - (H318)
Reproductive toxicity Category 1B - (H360D)
Specific target organ toxicity -- single exposure Category 3 - (H335)
Category 3 Respiratory irritation
Flammable liquids
Category 3 - (H226)

2.2. Label elements

2.2.1. Pictogram











2.2. Label elements Contains 2-methoxypropanol Signal word Dänger Hazărd statements H315 - Causes skin irritation

H318 - Causes serious eye damage H335 - May cause respiratory irritation H360D - May damage the unborn child

H226 - Flammable liquid and vapour Precautionary Statements - EU (§28, 1272/2008) P201 - Obtain special instructions before use

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P280 - 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
P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish
P403 + P235 - Store in a well-ventilated place. Keep cool

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. This product does not contain any known or suspected endocrine disruptors

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Chemical name: 2-methoxypropanol Weight-% 100 EC No (EU Index No): 216-455-5 Classification according to Regulation (EC) No.

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Flam. Liq. 3 (H226)
Skin Irrit. 2 (H315)
Eye Dam. 1 (H318)
Repr. 1B (H360D)
STOT SE 3 (H335)
Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Oral LD50 mg/kg: 5710 Dermal LD50

mg/kg: 5660 Inhalation LC50 - 4

hour - dust/mist - mg/L: No data available Inhalation LC50 - 4

hour - vapour - mg/L: No data available Inhalation LC50 - 4

hour - gas - ppm: No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).



C4H10O2

3.1.2. Molecular Weight (g/mol)

90.12

3.1.3. CAS-No.

1589-47-5

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a doctor. Self-protection of the first aider

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed Note to doctors Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. Large Fire CAUTION: Use of water spray when fighting fire may be inefficient. Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams. 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical



Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. 5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters
Firefighters should wear self-conta

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations. 6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1. Precautions for safe handling
Advice on safe handling Use personal protection equipment. Avoid breathing vapours or mists. Keep away from
heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use
grounding and bonding connection when transferring this material to prevent static
discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and
explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to
package label instructions. Handle in accordance with good industrial hygiene and safety
practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using
this product. Remove contaminated clothing and shoes. Take off contaminated clothing and
wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations Contaminated work clothing should not be allowed out of the workplace. Regular cleaning
of

equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

suitable gloves and eye/race protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original recentacle unless other advice is transport temperature conditions. Store only in the original receptacle unless other advice is



given on the CoA. 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters Exposure Limits
Chemical name: 2-methoxypropanol European Union -Austria: TWA: 20 ppm TWA: 75 mg/m3 STEL 80 ppm STEL 300 mg/m3

Belgium -Bulgaria -Croatia -

Denmark: TWA: 20 ppm TWA: 75 mg/m3 Germany: TWA: 5 ppm TWA: 19 mg/m3

Germany MAK: TWA: 5 ppm

TWA: 19 mg/m3 Peak: 10 ppm Peak: 38 mg/m3

Norway: TWA: 20 ppm TWA: 75 mg/m3 STEL: 30 ppm STEL: 112.5 mg/m3 Slovakia: TWA: 5 ppm TWA: 19 mg/m3

Slovenia: TWA: 19 mg/m3

TWA: 5 ppm STEL: 40 ppm STEL: 152 mg/m3

Spain: TWA: 5 ppm TWA: 19 mg/m3

Switzerland: TWA: 5 ppm

TWA: 19 mg/m3 STEL: 40 ppm STEL: 152 mg/m3

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific

regulatory bodies
Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

8.2. Exposure controls Personal protective equipment

Eye/face protection Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields

Hand protection Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear

protective gloves .
Skin and body protection Long sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Contaminated work clothing should not be allowed out of the workplace. Regular cleaning

equipment, work area and clothing is recommended. Wash hands before breaks and

None known



Seite 6/9

immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Colour colourless
Odour Ether.

Odour threshold No information available

Property

Melting point / freezing point -96.7 °C

Initial boiling point and boiling range129 - 131 °C

Flammability No data available

Flammability Limit in Air

Upper flammability or explosive Remarks o Method None known None known None known None known

limits

No data available

Lower flammability or explosive

1.7 %vol ; 64 g/m3 Flash point 41 °C None known Autoignition temperature No data available None known Decomposition temperature None known pH No data available None known pH (as aqueous solution) No data available Kinematic viscosity No data available Dynamic viscosity No data available No information available None known None known Water solubility No data available None known

Water solubility No data available Solubility(ies) slightly soluble, Chloroform, Methanol Partition coefficient No data available Vapour pressure 12 hPa @ 20°C Relative density 0.93 @ 20 °C Bulk density No data available Liquid Density No data available Liquid Density No data available Relative vapour density 3.11 Particle characteristics Particle Size No information available Particle Size Distribution No information available 9.2. Other information Molecular weight 90.12

None known

Molecular weight 90.12 Molecular formula C 4H10O 2

9.2.1. Information with regards to physical hazard classes

Not applicable 9.2.2. Other safety characteristics

No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity Reactivity No information available. 10.2. Chemical stability
Stability Stable under normal conditions. Explosion data Sensitivity to mechanical impact None.



Sensitivity to static discharge Yes. 10.3. Possibility of hazardous reactions Possibility of hazardous reactions None under normal processing. 10.4. Conditions to avoid Conditions to avoid Heat, flames and sparks. 10.5. Incompatible materials Incompatible materials Strong acids. Strong bases. Strong oxidizing agents. Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of exposure Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage.

May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Sýmptoms Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation. Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious

damage.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive

Chemical name: 2-methoxypropanol
European Union: Repr. 1B
STOT - single exposure May cause respiratory irritation.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

11.2. Information on other hazards
11.2.1. Endocrine disrupting properties
Endocrine disrupting properties No information available.
11.2.2. Other information

Other adverse effects No information available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

12.2. Persistence and degradability
Persistence and degradability No information available.
12.3. Bioaccumulative potential
Bioaccumulation No information available.

12.4. Mobility in soil

Mobility in soil No information available.
12.5. Results of PBT and vPvB assessment
PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.



12.6. Endocrine disrupting properties Endocrine disrupting properties No information available. 12.7. Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Waste from residues/unused

products
Should not be released into the environment. Dispose of in accordance with local

regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. TRANSPORT INFORMATION

Classification code F1

14.1 UN number or ID number UN1993 14.2 UN proper shipping name Flammable liquid, n.o.s. (2-methoxypropanol) 14.3 Transport hazard class(es) 3 14.4 Packing group III
Description UN1993, Flammable liquid, n.o.s. (2-methoxypropanol), 3, III
14.5 Environmental hazards Not applicable 14.6 Special precautions for user Special Provisions A3 ERG Code 3L **IMDG** 14.1 UN number or ID number UN1993
14.2 UN proper shipping name Flammable liquid, n.o.s. (2-methoxypropanol)
14.3 Transport hazard class(es) 3 14.4 Packing group III
Description UN1993, Flammable liquid, n.o.s., 3, III, (41°C c.c.)
14.5 Marine pollutant NP 14.6 Special precautions for user Special Provisions 223, 274, 955 EmS-No F-E, S-E No information available 14.7 Maritime transport in bulk according to IMO instruments No information available RID 14.1 UN number or ID number UN1993 14.2 UN proper shipping name Flammable liquid, n.o.s. (2-methoxypropanol) 14.3 Transport hazard class(es) 3 14.4 Packing group III
Description UN1993, Flammable liquid, n.o.s. (2-methoxypropanol), 3, III
14.5 Environmental hazards Not applicable 14.6 Special precautions for user Special Provisions 274, 601 Classification code F1 **ADR** 14.1 UN number or ID number UN1993 14.2 UN proper shipping name Flammable liquid, n.o.s. (2-methoxypropanol) 14.3 Transport hazard class(es) 3 14.4 Packing group III
Description UN1993, Flammable liquid, n.o.s. (2-methoxypropanol), 3, III, (D/E) 14.5 Environmental hazards Not applicable 14.6 Special precautions for user Special Provisions 274, 601



Tunnel restriction code (D/E)

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents

at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex

DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Restricted substance per REACH Annex XVII 30. 70.

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS
(CDC) result in (FC) (2007)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA Complies

DSL/NDSL Contact supplier for inventory compliance status EINECS/ELINCS Contact supplier for inventory compliance status

ENCS Contact supplier for inventory compliance status IECSC Contact supplier for inventory compliance status KECL Contact supplier for inventory compliance status PICCS Contact supplier for inventory compliance status AIIC Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

EINECS/ELINCS - European Inventory of Existing Chemical Substances |
ENCS - Japan Existing and New Chemical Substances |
IECSC - China Inventory of Existing Chemical Substances |
KECL - Korean Existing and Evaluated Chemical Substances |
PICCS - Philippines Inventory of Chemicals and Chemical Substances |
AICS - Australian Inventory of Chemical Substances |
15.2. Chemical safety assessment |
Chemical Safety Report A Chemical Safety Assessment is not required for this substance

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!