Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 16 Aug 2022

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

1.1. Product name:

Propylene glycol 1-methyl ether 2-acetate

1.1. Catalog No.:

677131

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

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
Classification according to Regulation (EC) No 1272/2008
Flammable liquids (Category 3), H226 Classification according to EU Directives 67/548/EEC or 1999/45/EC
R10

2.2. Label elements

2.2.1. Pictogram

2.2.2.

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Pictogram Signal word Warning
Hazard statement(s)
H226 Flammable liquid and vapour Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P403 + P235 Store in a well-ventilated place. Keep cool.
Supplemental Hazard
Statements
none
2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Synonyms : DOWANOL® PMA
MPA
1-Methoxy-2-propyl acetate
1,2-Propanediol monomethyl ether acetate
Propylene glycol methyl ether acetate
PGMEA
Formula : C6H12O3
Molecular weight : 132,16 g/mol
CAS-No. : 108-65-6
EC-No. : 203-603-9
Index-No. : 607-195-00-7
Hazardous ingredients according to Regulation (EC) No 1272/2008
Component Classification Concentration
2-Methoxypropanol
CAS-No.
EC-No.
Index-No.
1589-47-5
216-455-5
603-106-00-0
Flam. Liq. 3; Skin Irrit. 2; Eye
Dam. 1; Repr. 1B; STOT SE 3;
H226, H315, H318, H335,
H360D
< 0,3 %
2-Methoxy-1-methylethyl acetate
CAS-No.
EC-No.
Index-No.
108-65-6
203-603-9
607-195-00-7
Flam. Liq. 3; H226 <= 100 %
Hazardous ingredients according to Directive 1999/45/EC
Component Classification Concentration
2-Methoxypropanol
CAS-No.
EC-No.
Index-No.
1589-47-5
216-455-5
603-106-00-0
T, Repr.Cat.2, R61 - R10 -
R37/38 - R41
< 0,5 %
2-Methoxy-1-methylethyl acetate
CAS-No.
EC-No.
Index-No.
108-65-6
203-603-9
607-195-00-7
R10 <= 100 %

3.1.1. Formula

C6H12O3

3.1.2. Molecular Weight (g/mol)

132.16

3.1.3. CAS-No.

108-65-6

4. FIRST AID MEASURES

4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Carbon oxides
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
Use water spray to cool unopened containers

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.
6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid exposure - obtain special instructions before use.Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids 7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters
Component CAS-No. ValueForm
of exposure
Control
parameters
Basis
2-Methoxy-1-
methylethyl acetate
108-65-6 TWA 50 ppm
275 mg/m3
Europe. Commission Directive
2000/39/EC establishing a first list of
indicative occupational exposure
limit values
Remarks Identifies the possibility of significant uptake through the skin
Indicative
STEL 100 ppm
550 mg/m3
Europe. Commission Directive
2000/39/EC establishing a first list of
indicative occupational exposure
limit values
Identifies the possibility of significant uptake through the skin
Indicative
8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Body Protection
impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: clear, liquid
Colour: colourless
b) Odour No data available
c) Odour Threshold No data available
d) pH No data available
e) Melting point/freezing
point
Melting point/range: < -65,99 °C at 1.013 hPa
f) Initial boiling point and
boiling range
145 - 146 °C - lit.
g) Flash point 45,5 °C - closed cup
h) Evaporation rate No data available
i) Flammability (solid, gas) No data available
j) Upper/lower
flammability or
explosive limits
Upper explosion limit: 13,1 %(V)
Lower explosion limit: 1,3 %(V)
k) Vapour pressure 3,59 hPa at 20 °C - OECD Test Guideline 104
l) Vapour density No data available
m) Relative density 0,97 g/cm3 at 25 °C - lit.
n) Water solubility 198 g/l at 20 °C
o) Partition coefficient: noctanol/
water
log Pow: 1,2 at 20 °C - OECD Test Guideline 117
p) Auto-ignition
temperature
333 °C at 1.013 hPa
q) Decomposition
temperature
No data available
r) Viscosity 1,13 mm2/s at 25 °C -
s) Explosive properties No data available
t) Oxidizing properties No data available
9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Heat, flames and sparks.
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - female - 8.532 mg/kg
LD50 Dermal - Rat - male and female - > 2.000 mg/kg
(OECD Test Guideline 402)
Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)
Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
Respiratory or skin sensitisation
Maximisation Test (GPMT) - Guinea pig
Did not cause sensitisation on laboratory animals.
(OECD Test Guideline 406)
Germ cell mutagenicity
reverse mutation assay
S. typhimurium
Result: negative
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
No data available
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available Additional Information
Repeated dose toxicity - Rat - male and female - Oral
RTECS: AI8925000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Toxicity to fish mortality LC50 - Salmo gairdneri - 100 - 180 mg/l - 96 h
(OECD Test Guideline 203)
Toxicity to daphnia and
other aquatic

invertebrates
static test EC50 - Daphnia magna (Water flea) - > 500 mg/l - 48 h
12.2 Persistence and degradability
Biodegradability Biotic/Aerobic - Exposure time 28 d
Result: 83 % - Readily biodegradable
(OECD Test Guideline 301F)
Biochemical Oxygen
Demand (BOD)
0,36 mg/l
Chemical Oxygen
Demand (COD)
1,74 mg/g
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product

14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: 3271 IMDG: 3271 IATA: 3271
14.2 UN proper shipping name
ADR/RID: ETHERS, N.O.S. (2-Methoxy-1-methylethyl acetate)
IMDG: ETHERS, N.O.S. (2-Methoxy-1-methylethyl acetate)
IATA: Ethers, n.o.s. (2-Methoxy-1-methylethyl acetate)
14.3 Transport hazard class(es)
ADR/RID: 3 IMDG: 3 IATA: 3 14.4 Packaging group
ADR/RID: III IMDG: III IATA: III
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
No data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

2-Methoxypropanol CAS-No.: 1589-47-5
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)
Toxic to reproduction: category 1B
Restricted to professional users.
See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction
15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

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!