

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

1.1. Product identifier

Product Name **Methyl Propanediol**

Chemical name 2-methyl-1,3-propanediol **CAS No.** 2163-42-0

Pure substance/mixture Substance

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

Application Chemical intermediate

Uses advised against Application: Aerosol or mist formation, e.g. Sprays, Air freshener, Pepper sprays.

1.3. Details of the supplier of the safety data sheet

Supplier

Perstorp Specialty Chemicals AB
SE-284 80 Perstorp, Sweden
Tel. +46 435 380 00
www.perstorp.com

E-mail Address productinfo@perstorp.com

1.4. Emergency telephone number

Australia (+)61 1 800 686 951 (contract no: 334101)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Work Health and Safety Regulations (2011)

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Symbols/Pictograms

Not applicable

Signal word

None

Hazard statements

Not applicable

Precautionary statements

Not applicable

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical name	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-methyl-1,3-propanediol	2163-42-0	98-100	[A]

Full text of H- and EUH-phrases: see section 16

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Notes

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye contact	Rinse cautiously with tempered water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	If a large quantity have been ingested or if you feel unwell, get medical advice/attention.

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

May be harmful in contact with skin.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Do NOT induce vomiting.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

When hot, product develops flammable vapors. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles Cool containers with flooding quantities of water until well after fire is out Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

Hazardous combustion products

Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

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

Additional information

Cool containers with flooding quantities of water until well after fire is out

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Remove all sources of ignition. Wear safety glasses, gloves, protective clothing and rubber boots for hygienic reasons. Keep unprotected persons away.

6.2. Environmental precautions

Dilute with plenty of water. Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Dike to collect large liquid spills. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Methods for cleaning up

Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

6.4. Reference to other sections

See Section 7, 8, 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/spray. Ensure good ventilation at the work station. Wear personal protective equipment according to section 8 if risk of exposure. Keep container closed when not in use.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing (dust, vapor, mist, gas). Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep at 25 - 30 °C.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation. At elevated temperatures, special ventilation may be required even if the flash point has been exceeded. Flammable mists or aerosols can be generated below the flash point of high boiling liquids.

Personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Hand protection

Protective gloves not really required. However, we recommend using protective gloves made of rubber. Butyl rubber, (BR).

Skin and body protection

Normal work clothes for the chemical industry (long legs and sleeves).

Respiratory protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Environmental exposure controls

Not applicable.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid
Clear, Colorless

Odor Slight, odorless
Odor threshold Not applicable

Property	Values	Remarks • Method
pH	6.5	@ 20 °C
Melting point / freezing point	-54 °C	OECD Test No. 102: Melting Point/ Melting Range
Initial boiling point and boiling range	212 °C / 413.6 °F	OECD Test No. 103: Boiling Point
Flash point	~127 °C	Regulation (EC) No. 440/2008, Annex, A.9, CC (closed cup)
Evaporation rate		No information available
Flammability		Not applicable
Flammability limit in air		
Upper flammability or explosive limits		Not applicable
Lower flammability or explosive limits		Not applicable
Vapor pressure	2.8 Pa	@ 25 °C Regulation (EC) No. 440/2008, Annex, A.4
Relative vapor density	~3.2	@ air =1
Specific gravity		No information available
Water Solubility		Soluble in water
Solubility(ies)		No information available
Partition coefficient	-0.6	log POW Partition Coefficient (n-octanol/water)
Autoignition temperature	380 °C / 716 °F	Regulation (EC) No. 440/2008, Annex, A.15
Decomposition temperature		Not determined
Kinematic viscosity	66.6 mm ² /s	@ 40 °C
Dynamic viscosity	168 mPa s	@ 25 °C
Explosive properties	Not explosive.	
Oxidizing properties	Not oxidizing.	
Liquid density	1010 kg/m ³	@ 20 °C, OECD Test No. 109: Density of Liquids and Solids
Bulk density		No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

There exists no specific test data for this product. For further information, see the subsequent subsections of this chapter.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases: Carbon monoxide (CO), Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Inhalation. Dermal.

Symptoms related to the physical, chemical and toxicological characteristics

Most important symptoms and effects, both acute and delayed

May be harmful in contact with skin.

Numerical measures of toxicity

Acute toxicity

Acute inhalation toxicity - vapor: Not classified.

Acute Dermal Toxicity: Not classified.

2-methyl-1,3-propanediol (2163-42-0)				
Method	Species	Exposure route	Effective dose	Remarks
Not defined	Rat	Oral	>5000	LD50 (lethal dose) mg/kg
Not defined	Rabbit	Dermal	>2000	LD50 (lethal dose) mg/kg
OECD Test No. 403: Acute Inhalation Toxicity	Rat	Inhalation	>5.1	LC50 mg/l 4h Aerosol

Skin Corrosion/Irritation

Non-irritating to the skin.

2-methyl-1,3-propanediol (2163-42-0)			
Method	Species	Exposure route	Results:
Not defined	Rabbit	Dermal	Non-irritating to the skin

Serious eye damage/eye irritation

non-irritant.

2-methyl-1,3-propanediol (2163-42-0)			
Method	Species	Exposure route	Results:
Not defined	Rabbit	Eye	non-irritant

Respiratory or skin sensitization

No sensitising effects known.

2-methyl-1,3-propanediol (2163-42-0)			
Method	Species	Exposure route	Results:
OECD Test No. 406: Skin Sensitization	Guinea pig	Skin	Not a skin sensitizer

Germ cell mutagenicity

Not mutagenic.

2-methyl-1,3-propanediol (2163-42-0)		
Method	Species	Results:
OECD Test No. 476: In vitro Mammalian Cell	in vitro	Negative

Gene Mutation Test		
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Carcinogenicity

Not considered to be carcinogen. Since all in vitro mutagenicity studies are negative, there is no hint for any carcinogenic potential.

Reproductive toxicity

Is not considered hazardous to the reproduction.

2-methyl-1,3-propanediol (2163-42-0)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 416: Two-Generation Reproduction Toxicity	Rat	Oral	1000	NOAEL mg/kg bw/day (P1)
OECD Test No. 416: Two-Generation Reproduction Toxicity	Rat	Oral	1000	NOAEL mg/kg bw/day (F1)
OECD Test No. 416: Two-Generation Reproduction Toxicity	Rat	Oral	1000	NOAEL mg/kg bw/day (F2)
EPA OPPTS 870.3700	Rat	Oral	1000	NOAEL mg/kg bw/day No impairment of fertility has been observed. No embryotoxic or teratogenic effects have been observed.

STOT - Single exposure No known effect.

STOT - Repeated exposure Is not considered health hazardous by prolonged or repeated exposure.

2-methyl-1,3-propanediol (2163-42-0)				
Method	Species	Exposure route	Effective dose	Remarks
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	Oral	1000	NOAEL mg/kg bw/day

Aspiration hazard

No hazard from product as supplied.

SECTION 12: Ecological information**12.1. Toxicity**

Low toxicity to aquatic organisms.

2-methyl-1,3-propanediol (2163-42-0)					
Method	Species	Exposure route	Effective dose	Exposure time	Remarks
OECD Test No. 203: Fish, Acute Toxicity Test	Cyprinus carpio	Freshwater	>1000	96h	LC50 (lethal concentration) mg/l
OECD Test No. 202: Daphnia sp. Acute Immobilization Test	Daphnia Magna	Freshwater	>1000	48h	EC50 (effective concentration) mg/l
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Scenedesmus subspicatus	Freshwater	>1000	72h	EC50 (effective concentration) mg/l
OECD Test No. 211: Daphnia magna Reproduction Test	Daphnia Magna	Freshwater	100	21d	NOEC mg/l
OECD Test No. 209:	Bacteria toxicity	Freshwater	100	0.5h	NOEC mg/l

Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)					
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12.2. Persistence and degradability

Readily biodegradable.

2-methyl-1,3-propanediol (2163-42-0)			
Method	Value	Exposure time	Results:
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	84	28d	Readily biodegradable

12.3. Bioaccumulative potential

Based on the partition coefficients the ingredients the product is not expected to bioaccumulate in organisms.

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
2-methyl-1,3-propanediol	-0.6	

12.4. Mobility in soil

The substance is not expected to adsorb to a high degree to suspended solids and sediment based upon the log Pow.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available

Additional information

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

The product is not classified as hazardous waste. Incinerate at a licensed installation.

Contaminated packaging

Thoroughly emptied and clean packaging may be recycled.

SECTION 14: Transport information

ADR Road transport

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
Subsidiary hazard class	-
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

RID Rail transport

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated

Subsidiary hazard class	-
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

IMDG Sea transport

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Z,P,3,2G

IATA Air transport

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International regulations**

Not applicable.

National regulations**Australia**

Not applicable.

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet**

Issue date	05-Jun-2025
Revision date	05-Jun-2025
Revision note	The SDS has been reviewed but no relevant changes found

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet