

# Safety Data Sheet

## 3-METHYLBUTANOL-1

Revision date : 2025/10/14  
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(30036711/SDS\_GEN\_CA/EN)

### 1. Identification

**Product identifier used on the label**

**3-METHYLBUTANOL-1**

**Recommended use of the chemical and restriction on use**

Recommended use\*: process chemical, solvent(s)

Recommended use\*: process chemical; solvent(s)

Unsuitable for use: Not intended for sale to or use by the general public.

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

BASF Canada Inc.  
5025 Creekbank Road  
Building A, Floor 2  
Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

**Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

**Other means of identification**

Chemical family: alcohol

Synonyms: Not available. Use: process chemical; solvent(s)

### 2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2022-272)

**Classification of the product**

Flam. Liq.	3	Flammable liquids
Skin Irrit.	2	Skin irritation
Eye Dam.	1	Serious eye damage

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STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic

### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P273	Avoid release to the environment.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist or vapour or spray.
P243	Take action to prevent static discharges.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P264	Wash contaminated body parts thoroughly after handling.
P240	Ground and bond container and receiving equipment.
P242	Use non-sparking tools.

Precautionary Statements (Response):

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 physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P391	Collect spillage.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water spray for extinction.

Precautionary Statements (Storage):

P233	Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents/container in accordance with local regulations.
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### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. See section 12 - Results of PBT and vPvB assessment.

#### Labeling of special preparations (GHS):

Repeated exposure may cause skin dryness or cracking.

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## 3. Composition / Information on Ingredients

### According to Hazardous Products Regulations (HPR) (SOR/2022-272)

#### | 3-methylbutan-1-ol

| CAS Number: 123-51-3

| Content (W/W):  $\geq 98.5$  -  $\leq 99.9\%$

| Synonym: 3-Methyl-1-butanol; Isoamyl alcohol

#### | pentan-1-ol

| CAS Number: 71-41-0

| Content (W/W):  $> 0.0$  -  $\leq 1.0\%$

| Synonym: 1-Pentanol; Pentyl alcohol, n-Amyl alcohol

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

#### If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

#### If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms: Overexposure may cause:, vomiting, weakness, nausea, headache, dizziness

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Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:  
dry powder, water spray, carbon dioxide, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:  
water jet

Additional information:  
Use extinguishing measures to suit surroundings.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Wear a self-contained breathing apparatus. Special protective equipment for firefighters

### Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

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## 6. Accidental release measures

### Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

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### Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

### Environmental precautions

Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### Precautions for safe handling

Avoid all sources of ignition: heat, sparks, open flame. Ground and/or bond all equipment to prevent electrostatic charges.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

### Conditions for safe storage, including any incompatibilities

No applicable information available.

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

3-methylbutan-1-ol	ACGIH, US:	STEL value 125 ppm ;
	ACGIH, US:	TWA value 100 ppm ;
	OSHA Z1:	PEL 100 ppm 360 mg/m3 ;

### Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

#### Hand protection:

Wear chemical resistant protective gloves.

#### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

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### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

### General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Avoid inhalation of vapour. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

## 9. Physical and Chemical Properties

Physical state:	liquid	
Form:	liquid	
Odour:	sweetish	
Odour threshold:	not determined	
Colour:	colourless	
pH value:	6.5	(internal method)
glass transition temperature:	-147 °C	(measured)
Freezing point:	No data available.	
Melting point:	No data available.	
Boiling point:	130.7 °C ( 1,013.25 hPa)	(measured)
Boiling range:	No data available.	
Sublimation point:	No applicable information available.	
Flash point:	43.5 °C	(ISO 13736, closed cup)
Flammability:	Flammable.	(derived from flash point)
Lower explosion limit:	1.0 %(V) ( 37.4 °C)	(air)
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	335 °C	(DIN 51794)
Vapour pressure:	3 hPa ( 20 °C)	(measured)
Density:	dynamic 0.8080 g/cm3 ( 20 °C)	(DIN 53217-5)
Relative density:	0.8080 ( 20 °C)	
Relative vapour density:	3.03 ( 20 °C)	(calculated)
Partitioning coefficient n-octanol/water (log Pow):	Heavier than air. 1.35 ( 23 °C)	(measured)
Self-ignition temperature:	Based on its structural properties the product is not classified as self-igniting.	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	4.3 mPa.s ( 20 °C)	
Viscosity, kinematic:	5.32 mm2/s ( 20 °C)	(DIN 51562)

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Solubility in water:	26,400 mg/l ( 19.8 °C) Literature data.
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	soluble solvent(s): organic solvents,
Molecular weight:	88.15 g/mol
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.

### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form.

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## 10. Stability and Reactivity

### Reactivity

When heated can give off ignitable vapours.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Formation of flammable gases:	Remarks: Forms no flammable gases in the presence of water.
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### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

### Incompatible materials

strong oxidizing agents  
strong acids, bases

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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### 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### Acute Toxicity/Effects

##### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard. Of low toxicity after short-term skin contact. The European Union (EU) has classified this substance as 'harmful' after inhalation.

##### Oral

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg (BASF-Test)

##### Dermal

Type of value: LD50

Species: rabbit (male)

Value: approx. 3,216 mg/kg (similar to OECD guideline 402)

##### Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

##### Irritation / corrosion

Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.

##### Skin

Species: rabbit

Result: Irritant.

Method: Draize test

##### Eye

Species: rabbit

Result: irreversible damage

Method: Draize test

##### Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

##### In vitro/in chemico test battery

Species: In vitro assay

Result: Non-sensitizing.

Method: In vitro skin sensitization test battery

##### Aspiration Hazard



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not applicable

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: No adverse effects were observed after repeated oral exposure in animal studies. No adverse effects were observed after repeated inhalative exposure in animal studies. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

#### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals.

#### Carcinogenicity

Assessment of carcinogenicity: A long-term carcinogenicity study which does not meet the current requirements did not show a carcinogenic effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

#### Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. No adverse effects on embryonic or fetal development were observed.

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Toxic to aquatic organisms based on long-term (chronic) toxicity study data.

#### Toxicity to fish

LC50 (96 h) > 120 mg/l, *Salmo gairdneri*, syn. *O. mykiss* (OECD 203; ISO 7346; 84/449/EWG, C.1, static)

Nominal concentration.

#### Aquatic invertebrates

EC50 (48 h) > 100 mg/l, *Daphnia magna* (DIN 38412 Part 11, static)

Nominal concentration.

#### Aquatic plants

EC50 (72 h) > 100 mg/l (growth rate), *Scenedesmus subspicatus* (DIN 38412 Part 9, static)

Nominal concentration.

#### Chronic toxicity to fish

No observed effect concentration (35 d) 10 mg/l, *Brachydanio rerio* (OECD Guideline 210, Flow through.)

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The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Chronic toxicity to aquatic invertebrates

EC10 (21 d) 0.059 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Assessment of terrestrial toxicity

No data available.

## **Microorganisms/Effect on activated sludge**

### Toxicity to microorganisms

OECD Guideline 209 aerobic

activated sludge, domestic/EC10 (3 h): 370 mg/l

Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## **Persistence and degradability**

### Assessment biodegradation and elimination (H<sub>2</sub>O)

Readily biodegradable (according to OECD criteria).

### Elimination information

84 % BOD of COD (27 d) (OECD 301F; ISO 9408; 92/69/EWG, C.4-D) (aerobic, activated sludge, domestic)

### Assessment of stability in water

According to structural properties, hydrolysis is not expected/probable.

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

### Bioaccumulation potential

No data available.

## **Mobility in soil**

### Assessment transport between environmental compartments

The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

## **Additional information**

Adsorbable organically-bound halogen(AOX):

This product contains no organically-bound halogen.

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### 13. Disposal considerations

**Waste disposal of substance:**

Must be disposed of or incinerated in accordance with local regulations.

**Container disposal:**

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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### 14. Transport Information

**Land transport**

TDG

Hazard class: 3  
Packing group: III  
ID number: UN 1105  
Hazard label: 3, EHSM  
Proper shipping name: PENTANOLS

**Sea transport**

IMDG

Hazard class: 3  
Packing group: III  
ID number: UN 1105  
Hazard label: 3, EHSM  
Marine pollutant: NO  
Proper shipping name: PENTANOLS

**Air transport**

IATA/ICAO

Hazard class: 3  
Packing group: III  
ID number: UN 1105  
Hazard label: 3  
Proper shipping name: PENTANOLS

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### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Chemical DSL, CA

DSL listed and/or otherwise compliant.

**Assessment of the hazard classes according to UN GHS criteria (most recent version):**

Flam. Liq.	3	Flammable liquids
Eye Dam.	1	Serious eye damage

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STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Skin Irrit.	2	Skin irritation
Acute Tox.	5 (dermal)	Acute toxicity
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic

### 16. Other Information

**SDS Prepared by:**  
BASF NA Product Regulations  
SDS Prepared on: 2025/10/14

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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Date / Previous version: 2024/08/07

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