ChemicalBook

# Chemical Safety Data Sheet MSDS / SDS

# 1,1-DICHLOROPROPENE

Revision Date:2026-05-31 Revision Number:1

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

### Product identifier

| | |
|---|---|
| Product name | : 1,1-DICHLOROPROPENE |
| CBnumber | : CB7389265 |
| CAS | : 563-58-6 |
| EINECS Number | : 209-253-3 |
| Synonyms | : 1,1-Dichloropropene,1,1-dichloro-1-propene |

### Relevant identified uses of the substance or mixture and uses advised against

| | |
|---|---|
| Relevant identified uses | : For R&D use only. Not for medicinal, household or other use. |
| Uses advised against | : none |

### Company Identification

| | |
|---|---|
| Company | : Chemicalbook |
| Address | : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing |
| Telephone | : 010-86108875 |

## SECTION 2: Hazards identification

### GHS Label elements, including precautionary statements

Symbol(GHS)

Signal word Danger

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

**Hazard statements**

H370 Causes damage to organs

H225 Highly Flammable liquid and vapour

## SECTION 3: Composition/information on ingredients

### Substance

| | |
|---|---|
| Product name | : 1,1-DICHLOROPROPENE |
| Synonyms | : 1,1-Dichloropropene,1,1-dichloro-1-propene |
| CAS | : 563-58-6 |
| EC number | : 209-253-3 |
| MF | : C3H4Cl2 |
| MW | : 110.97 |

## SECTION 4: First aid measures

### First Aid Measures

**General advice**

Consult a physician if necessary. Remove to fresh air.

**Eye contact**

Wash with plenty of water.

**Skin Contact**

Wash skin with soap and water.

**Inhalation**

Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration

**Ingestion**

Never give anything by mouth to an unconscious person. Clean mouth with water.

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

**Symptoms**

No information available.

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

**Note to physicians**

Treat symptomatically.

## SECTION 5: Firefighting measures

### Suitable Extinguishing Media

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

No information available.

### Specific hazards arising from the chemical

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

**Hazardous combustion products**

Carbon oxides. Phosgene.

### Explosion data

**Sensitivity to Mechanical Impact**

No information available.

**Sensitivity to Static Discharge**

No information available.

### Protective equipment and precautions for firefighters

**Protective equipment and precautions for firefighters**

As in any fire, wear self contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions**

Ensure adequate ventilation, especially in confined areas.

### Environmental precautions

**Environmental precautions**

See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Pick up and transfer to properly labeled containers.

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## SECTION 7: Handling and storage

### Precautions for safe handling

**Advice on safe handling**

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at 4 °C.

**Incompatible materials**

None known based on information supplied.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

**Exposure Guidelines**

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**Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Methanol<br>67-56-1 | STEL: 250 ppm<br>TWA: 200 ppm<br>S* | TWA: 200 ppm<br>TWA: 260 mg/m3 (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m3 (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m3 (vacated) S* | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m3<br>STEL: 250 ppm<br>STEL: 325 mg/m3 |

NIOSH IDLH Immediately Dangerous to Life or Health

### Appropriate engineering controls

**Engineering Controls**

Showers

Eyewash stations

Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin and Body Protection**

Wear protective gloves and protective clothing.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

| | |
|---|---|
| Physical State | liquid |
| Appearance | No information available |
| Odor | No information available |
| pH | No information available |

| | |
|---|---|
| Melting point/freezing point | -98 °C |
| Boiling point | 64 °C |
| Flash point | 11 °C CC (closed cup) |
| Liquid Density | 0.791 g/mL |
| Evaporation rate | No information available |
| Upper flammability limits | 36% |
| Lower flammability limit | 6% |
| Vapor pressure | 97.68 mmHg |
| Vapor density | No information available |
| Specific gravity | No information available |
| Water solubility | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | 385 °C |
| Decomposition temperature | No information available |
| Kinematic viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Density and/or relative density | 1.1864 |

## SECTION 10: Stability and reactivity

### Reactivity

Not applicable

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous polymerization

No information available.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon oxides. Phosgene.

# SECTION 11: Toxicological information

### Information on likely routes of exposure

**Inhalation**

Classified based on available data. For more details, see section 2.

**Eye contact**

Classified based on available data. For more details, see section 2.

**Skin Contact**

Classified based on available data. For more details, see section 2.

**Ingestion**

Classified based on available data. For more details, see section 2.

### Information on toxicological effects

**Symptoms**

Classified based on available data. For more details, see section 2.

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

**Chronic Toxicity**

Classified based on available data. For more details, see section 2. Target Organ Effects Gastrointestinal tract (GI), Central nervous system, Eyes, Respiratory system, Skin.

### Numerical measures of toxicity - Product Information

**Unknown acute toxicity**

Classified based on available data. For more details, see section 2

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**

100 mg/kg

**ATEmix (dermal)**

302 mg/kg

**ATEmix (inhalation-dust/mist)**

0.5 mg/l

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# SECTION 12: Ecological information

### Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to Microorganisms | Crustacea |
|---|---|---|---|---|
| Methanol<br>67-56-1 | - | 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L<br>LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L | - | - |

| | | | | |
|---|---|---|---|---|
| | | LC50 flow-through | | |

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

**Methanol**

28200: 96 h Pimephales - -

**Pimephales promelas mg/L**

**LC50 static 13500**

17600: 96 h Lepomis macrochirus

**Oncorhynchus mykiss mg/L**

LC50 flow-through

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

**Persistence and degradability No information available. Bioaccumulation No information available. Mobility No information available.**

**Methanol**

-0.77 67-56-1

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## SECTION 13: Disposal considerations

**Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated packaging Do not reuse container. California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.**

**Methanol**

Toxic

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## SECTION 14: Transport information

**DOT**

**UN/ID no**

UN1230

**Hazard Class**

3

**Subsidiary class**

6.1

**Packing Group**

II

**Proper shipping name**

Methanol Reportable Quantity (RQ) (Methanol: RQ (kg)= 2270.00)

**Description**

UN1230, Methanol, 3 (6.1), II

**Emergency Response Guide Number**

131

### IMDG

**UN/ID no**

UN1230

**Hazard Class**

3

**Subsidiary hazard class**

6.1

**Packing Group**

II

**Proper shipping name**

Methanol

**Description**

UN1230, Methanol, 3 (6.1), II, (11°C c.c.)

**Special Provisions**

279

**EmS-No**

F-E, S-D

### IATA

**UN/ID no**

UN1230

**Hazard Class**

3

**Subsidiary hazard class**

6.1

**Packing Group**

II

**Proper shipping name**

Methanol

**Description**

UN1230, Methanol, 3 (6.1), II

**ERG Code**

3L

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## SECTION 15: Regulatory information

### International Inventories

All of the components in the product are on the following Inventory lists

Europe (EINECS/ELINCS/NLP)

X - Listed

PICCS - Philippines Inventory of Chemicals and Chemical Substances

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

| Chemical name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|---|---|
| Methanol | X | X | - | X | - | X | X | X | X | X |
| 1,1-Dichloropropene | - | - | - | X | - | - | - | - | - | - |

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

**Acute health hazard**

Yes

**Chronic Health Hazard**

Yes

**Fire hazard**

Yes

**Sudden release of pressure hazard**

No

**Reactive hazard**

No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical name California Proposition 65 |
|---|
| Chemical name |
| Methanol - 67-56-1 |

### U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Methanol 67-56-1 | X | X | X |

## SECTION 16: Other information

### Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration