

1,2-Dichloropropane Safety Technical Data Sheet

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Part 1: Identification of Chemicals and Enterprises

Chinese name :	1,2-Dichloropropane	Chinese Aliases:	DD propane
English name :	1,2-Dichloropropane	English Aliases:	DD Dichloropropane
CAS Number:	78-87-5	Technical Specification Code:	MSDS#1049
Supplier Name:	Shandong Zibo Yixiao Economic and Trade	Supplier Address:	Qilu International Plastic Processing City Entrepreneurship Park 206
Supplier Phone:	+8615264361427	Supplier Emergency Phone:	+8615264361427
Supplier Fax:		Supplier Email:	chaersenbadun@ziboyixiao.com

Part II: Overview of Risks

Risk Category:	Flammable liquids with a flash point specified in Category 3.2
Route of entry :	Inhaled and ingested substances are absorbed transdermally.
Health hazard :	It is harmful to the body when inhaled, ingested, or absorbed through the skin. 1,2-Dichloropropane exhibits inhibitory effects on the central nervous system; can cause dry skin, desquamation, and fissures; irritates mucous membranes; and may induce fatty changes in the liver, kidneys, and myocardium. For skin contact: remove contaminated clothing and thoroughly rinse with soap water and clean water.
Environment hazards :	Non-avaible
Explosive hazard:	Non-avaible

Part three : Ingredients/Composition Information

Hazardous components:	1,2-Dichloropropane
Content:	100%

Part Four:emergency treatment

Skin exposure :	Remove contaminated clothing and wash thoroughly with soap solution and clean water.
Eye contact :	Immediately elevate the eyelid and rinse with running water.
Inhalation :	Immediately remove the individual from the scene to an area with fresh air. Maintain airway patency. Administer oxygen if dyspnea occurs. Perform artificial respiration immediately if breathing ceases. Seek medical attention.
Ingestion :	For accidental ingestion, administer a large amount of warm water to induce vomiting and perform gastric lavage. Seek medical attention immediately.

Part Five: fire protection

Risk Characteristics:

Its vapor forms an explosive mixture with air and can ignite or explode upon exposure to open flames or high heat. It reacts vigorously with oxidizing agents and decomposes under high temperature, releasing toxic corrosive gases. Its vapor is heavier than air and can spread over considerable distances at lower elevations, potentially causing backfire when encountering a fire source. Exposure to intense heat increases internal pressure within the container, posing risks of cracking or explosion.

Fire Risk Classification in Building Design:

A

Hazardous combustion products:

Carbon monoxide, carbon dioxide, hydrogen chloride, phosgene.

Fire extinguishing method:

Fog-like water, foam, carbon dioxide, dry powder, sand.

Part VI: Emergency Response to Leaks

Emergency handling :

Evacuate personnel from the contaminated area to a safe zone; prohibit unauthorized access to the affected area and eliminate all ignition sources. Emergency responders should wear self-contained breathing apparatus and standard fire-resistant protective clothing. Seal the leak only after ensuring safety; water spraying may reduce evaporation but does not mitigate the flammability of the leaked substance in confined spaces. Absorb the spill using a mixture of sand or other non-flammable absorbents, then collect and transport it to a waste treatment facility for disposal. Alternatively, wash the area with an emulsion of non-flammable dispersants, followed by dilution and discharge into the wastewater system. In cases of large-scale leaks, contain the spill using a containment barrier before collecting, transferring, recycling, or safely disposing of the material.

Part VII: Handling, Disposal and Storage

Operational Notes:

Non-avaible

Storage Precautions:

Store in a cool, well-ventilated storage room. Keep away from sources of ignition and heat. The room temperature should not exceed 30°C. Protect from direct sunlight. Maintain container integrity by ensuring sealing. Store separately from oxidizers. Lighting and ventilation systems in the storage area must be explosion-proof, with switches located outside the room. Equip with appropriate types and quantities of fire-fighting equipment. Implement fire and explosion prevention measures when storing in tanks. Avoid using machinery or tools that may generate sparks. During filling, maintain flow rates below 3 m/s and ensure proper grounding to prevent static electricity buildup. Handle containers gently during loading/unloading to avoid damage. Transport along designated routes without stops.

Part VIII: Contact Control/Personal Protection

China MAC (mg/m³):

No standards have been established

Former Soviet MAC (mg/m³):

10

TLVTN:

Non-avaible

TLVWN:

Non-avaible

Exposure limit :

U.S. TWA: OSHA – 75 ppm; ACGIH – 75 ppm U.S. STEL: ACGIH – 110 ppm

Monitoring Method:

Non-avaible

Engineering control :

The production process is enclosed, and ventilation is enhanced.

Respiratory protection:

When air concentration exceeds safety limits, a gas mask should be worn. During emergency rescue or evacuation operations, a self-contained breathing apparatus (SCBA) must be used.

Eye protection :

Wear chemical safety goggles.

Body Protection:

Wear appropriate protective clothing.

Hand Protection:

Wear chemical-resistant gloves when necessary.

Other Protections:

Non-avaible

Part IX: Physical and Chemical Properties

pH:

Non-avaible

Melting point (°C):

–80

Boiling point (°C):	96. 8	Molecular formula :	C3H6Cl2
Main Ingredients:	Non-avaible	Saturation vapor pressure (kPa):	5. 33/19. 4℃
Logarithm of the octanol/water partition coefficient:	Non-avaible	Critical temperatures (°C) :	304. 3
Flash point (°C) :	15	Ignition temperature (°C) :	Non-avaible
Autogenous ignition temperature :	555	Combustibility :	Easy to burn
Solubility :	Insoluble in water, soluble in most organic solvents.	Relative Density (Water = 1):	1. 16
Relative vapor density (air = 1):	3. 9	Formula weight :	112. 99
Combustion heat (kJ/mol):	1542. 8	Critical Pressure (MPa):	4. 44
Explosion Limit (%) (V/V):	14. 5	Lower explosive limit% (V/V):	3. 4
Appearance and characteristics:	A colorless liquid with an odor similar to chloroform.		
Main application :	Used as a solvent for fats, oils, waxes, resins, and gums, as well as an insecticide.		
Other physicochemical properties:	Non-avaible		
Part 10: Stability and Reactivity			
Stability :	Stabilize		
Prohibited complexes:	Strong oxidizing agents, acids, alkalis, aluminum.		
Conditions to avoid contact:	Non-avaible		
Agglomeration Hazards:	Cannot appear		
Cleavage product :	Non-avaible		
Part XI:Toxicological Information			
Acute toxicity :	LD50:2196 mg/kg (oral administration in rats); 8750 mg/kg (percutaneous administration in rabbits); LC50:		
Subacute and chronic toxicity:	Non-avaible		
RTECS:	TX9625000		
Thrill :	Non-avaible		
Sensitization :	Non-avaible		
Mutagenicity :	Non-avaible		
Teratogenicity :	Non-avaible		
Carcinogenicity :	Non-avaible		
Part XII: Ecological Data			
Ecotoxicity:	Non-avaible		
Biodegradability :	Non-avaible		
Non-biodegradability:	Non-avaible		
Bioaccumulation or bioconcentration:	Non-avaible		
Other adverse effects:	Smoking, eating, and drinking are prohibited at the workplace.After work,take a shower and change clothes. Maintain personal hygiene.		

Part Thirteen: Disposal of waste	
Waste Property:	Prior to disposal, refer to relevant national and local regulations. Incineration is recommended as the disposal method.
Disposal Method:	Non-avaible
Disposal Precautions:	Non-avaible
Part 14: Transportation Information	
Hazardous Materials Number:	32036
UN number :	1279
IMDG Rule Page Number:	3206
Packing mark :	7
Packaging Category:	Non-avaible
Packing method :	Non-avaible
Transportation Notes:	Non-avaible
Part 15: Legal Regulations Information	
Legal Information:	Non-avaible
Part 16: Other Information	
References :	http://www.ziboyixiao.com _____
Modification Note:	Non-avaible
Other Information:	Non-avaible
Department for Form Completion:	
Review Department:	