



Material Safety Data Sheet

1,2-Dichloropropane, 98%

MSDS# 02091

Section 1 - Chemical Product and Company Identification

MSDS Name: 1,2-Dichloropropane, 98%

Catalog Numbers: AC113670000, AC113670010, AC113670025, AC113670050, AC113670500, AC113672500

Synonyms: Propylene dichloride.

Company Identification:

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification: (USA)

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call:

800-ACROS-01

For information in Europe, call:

+32 14 57 52 11

Emergency Number, Europe:

+32 14 57 52 99

Emergency Number US:

201-796-7100

CHEMTREC Phone Number, US:

800-424-9300

CHEMTREC Phone Number, Europe:

703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 78-87-5
Chemical Name: 1,2-Dichloropropane
%: 98
EINECS#: 201-152-2

Hazard Symbols:

XN F



Risk Phrases:

11 20/22

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable liquid and vapor. May cause central nervous system depression. May cause liver and kidney damage. Causes eye, skin, and respiratory tract irritation. May be harmful if swallowed or inhaled. Target Organs: Kidneys, central nervous system, liver.

Potential Health Effects

Eye: Causes moderate eye irritation. Vapors cause eye irritation. May cause eye injury.

Skin: Causes skin irritation. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis. May be absorbed through the skin.

Ingestion: May be harmful if swallowed. May cause effects similar to those of acute inhalation. Causes gastrointestinal tract irritation.

Inhalation: Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause liver and kidney damage.

May cause anemia. Vapors may cause dizziness or suffocation. May cause cardiac abnormalities. Symptoms of inhalation include: anorexia, abdominal pain, vomiting, blood abnormalities, and hematuria.

Chronic: Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Autoignition Temperature: 557 deg C (1,034.60 deg F)

Flash Point: 15 deg C (59.00 deg F)

Explosion Limits: Lower: 3.40 vol %

Explosion Limits: Upper: 14.50 vol %

NFPA Rating: health: 2; flammability: 3; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
1,2-Dichloropropane	10 ppm	400 ppm IDLH	75 ppm TWA; 350 mg/m3 TWA

OSHA Vacated PELs: 1,2-Dichloropropane: 75 ppm TWA; 350 mg/m³ TWA

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: colorless

Odor: Sweet

pH: Not available

Vapor Pressure: 50 mm Hg @ 25 deg C

Vapor Density: 3.9 (air=1)

Evaporation Rate: >1 (Butyl Acetate = 1)

Viscosity: Not available

Boiling Point: 95-96 deg C @ 760 mm Hg

Freezing/Melting Point: -100 deg C (-148.00°F)

Decomposition Temperature: Not available

Solubility in water: IN WATER: 3 G/L (20°C)

Specific Gravity/Density: 1.15 g/ml

Molecular Formula: C₃H₆Cl₂

Molecular Weight: 112.99

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Ignition sources, excess heat, confined spaces.

Incompatibilities with Other Materials Not available

Hazardous Decomposition Products Hydrogen chloride, phosgene, carbon monoxide, carbon monoxide, carbon dioxide.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 78-87-5: TX9625000

RTECS:

CAS# 78-87-5: Draize test, rabbit, eye: 500 mg Mild;

Inhalation, rat: LC₅₀ = 14 gm/m³/8H;

Inhalation, rat: LC₅₀ = 300 ppm/8H;

LD₅₀/LC₅₀: Oral, mouse: LD₅₀ = 860 mg/kg;

Oral, rat: LD₅₀ = 1900 mg/kg;

Skin, rabbit: LD₅₀ = 8750 uL/kg;

Skin, rabbit: LD₅₀ = 8750 mg/kg;

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Carcinogenicity: 1,2-Dichloropropane - California: carcinogen, initial date 1/1/90 IARC: Group 3 (not classifiable)

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other: No information available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: 1,2-DICHLOROPROPANE

Hazard Class: 3

UN Number: UN1279

Packing Group: II

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 78-87-5: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F

Risk Phrases:

R 11 Highly flammable.

R 20/22 Harmful by inhalation and if swallowed.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 24 Avoid contact with skin.

WGK (Water Danger/Protection)

CAS# 78-87-5: 3

Canada

CAS# 78-87-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: B2, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 78-87-5 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 78-87-5 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 2/17/1999

Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
