



Material Safety Data Sheet
1,2,3-Trichloropropane, 99+ %

MSDS# 86289

Section 1 - Chemical Product and Company Identification

MSDS Name: 1,2,3-Trichloropropane, 99+ %
Catalog Numbers: AC149550000, AC149550010, AC149550050, AC149551000, AC149552500, AC149555000
Synonyms: Glycerol trichlorohydrin; Trichlorohydrin; Allyl trichloride; TCP.

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#: 96-18-4
Chemical Name: 1,2,3-Trichloropropane
%: >99
EINECS#: 202-486-1

Hazard Symbols: XN



Risk Phrases: 20/21/22

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Combustible liquid and vapor. May cause skin irritation. May cause liver and kidney damage. Harmful if swallowed, inhaled, or absorbed through the skin. May cause cancer in humans. Breathing vapors may cause drowsiness and dizziness. Causes eye and respiratory tract irritation. Target Organs: Kidneys, central nervous system, liver, lungs, eyes.

Potential Health Effects

Eye: Causes eye irritation.

Skin: May cause skin irritation. Harmful if absorbed through the skin. No data found on whether or not this chemical would be likely to cause an allergic skin reaction.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Harmful if inhaled. Causes respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness.

Chronic: Possible cancer hazard based on tests with laboratory animals. May cause liver and kidney damage.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

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. 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. Combustible liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature: 304 deg C (579.20 deg F)

Flash Point: 71 deg C (159.80 deg F)

Explosion Limits: Lower: 3.2 vol%

Explosion Limits: Upper: 12.6 vol%

NFPA Rating: health: 2; flammability: 2; instability: 1;

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat and flame.

Storage: Keep away from heat and flame. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in aluminum containers. Separate from oxidizing materials.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
1,2,3-Trichloropropane	10 ppm; Skin - potential significant contribution to overall exposure by the cutaneous route	10 ppm TWA; 60 mg/m3 TWA 100 ppm IDLH	50 ppm TWA; 300 mg/m3 TWA

OSHA Vacated PELs: 1,2,3-Trichloropropane: 10 ppm TWA; 60 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.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a 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 to straw colored

Odor: chloroform-like - acrid odor

pH: Not applicable

Vapor Pressure: 3.69 mm Hg @ 25 deg C

Vapor Density: 5.1 (air=1)

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 156 deg C @ 760 mm Hg (312.80°F)

Freezing/Melting Point: -14.7 deg C (5.54°F)

Decomposition Temperature: Not available

Solubility in water: Negligible

Specific Gravity/Density: 1.3889

Molecular Formula: C3H5Cl3

Molecular Weight: 147.43

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Light, ignition sources, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents, strong bases, aluminum, magnesium.

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

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 96-18-4: TZ9275000

RTECS:

CAS# 96-18-4: Draize test, rabbit, eye: 100 uL Moderate;

Draize test, rabbit, skin: 500 uL/24H Mild;

Inhalation, mouse: LC50 = 3400 mg/m³/2H;

LD50/LC50: Oral, mouse: LD50 = 369 mg/kg;

Oral, rabbit: LD50 = 380 mg/kg;

Oral, rat: LD50 = 108 uL/kg;

Skin, rabbit: LD50 = 372 uL/kg;

Other: 108 uL/kg is approximately = 149 mg/kg. 372 uL/kg is approximately = 513 mg/kg.

Carcinogenicity: 1,2,3-Trichloropropane - ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans California: carcinogen, initial date 10/1/92 NTP: Suspect carcinogen IARC: Group 2A carcinogen

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Daphnia: Daphnia: 45 mg/l; 24H; EC50

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

US DOT

Shipping Name: TOXIC LIQUIDS, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: UN2810

Packing Group: III

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 96-18-4: 2

Canada

CAS# 96-18-4 is listed on Canada's DSL List

Canadian WHMIS Classifications: B3, D1B, D2A

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# 96-18-4 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 96-18-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 8/25/1998

Revision #7 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.
