

SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

<u>Product Name:</u> 3-Chloro-1,2-propanediol 98%

<u>Product Code:</u> C18420

<u>Supplier:</u> Pfaltz & Bauer, Inc.

172 E. Aurora Street

Waterbury, CT 06708 USA

<u>Phone:</u> 203-574-0075

<u>FAX:</u> 203-574-3181

Emergency Phone: INFOTRAC, US: 1-800-535-5053

INFOTRAC, INTERNATIONAL: +1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazard: Irritant, Respiratory irritant, Toxic

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system.

May be fatal by ingestion and inhalation, harmful by skin absorption.

Chronic Health Hazard: Teratogen

HMIS Rating: H: 4 F: 0 P: 0

NFPA Rating: H: 4 F: 0 R: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): GHS Classification in accordance with Regulation (EC) No 1272/2008:

Acute toxicity, dermal (Category 4), H312

Acute toxicity, inhalation (Category 1), H330

Acute toxicity, oral (Category 1), H300

Reproductive toxicity (Category 1A), H360

Serious eye damage/eye irritation (Category 2A), H319

Skin corrosion/irritation (Category 2), H315

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

Pictogram:



Signal Word: Warning

Hazard Statement(s): H300 Fatal if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H360 May damage fertility or the unborn child.

<u>Precautionary Statement(s):</u> P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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

protection.

P284 Wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in

a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention. P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

<u>Chemical Name:</u> 3-Chloro-1,2-propanediol 98%

Synonyms: a-Chlorhydrin; Glycerol monochlorohydrin; GAM; 2,3-Dihydroxypropyl

chloride; b,b'-Dihydroxyisopropyl chloride; 1-Chloro-2,3-propanediol; 3-

Chloropropylene glycol; Glyceryl-a-chlorohydrin

<u>CAS Number:</u> 96-24-2

MDL Number: MFCD00004712

EINECS Number: 202-492-4

Beilstein Registry Number: 635684

Molecular Formula: C₃H₇ClO₂

Molecular Weight: 110.54

<u>Content:</u> As specified in product name.

SECTION 4: FIRST AID MEASURES

Eve Contact: Flush eyes with large amounts of water for fifteen minutes. Separate

eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical

attention.

<u>Ingestion:</u> Do not induce vomiting. Seek medical attention.

Inhalation: Move to a fresh air environment. Contact a physician if breathing

becomes difficult.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (°C): 132

Explosion Limits: Not Available

Auto Ignition

Not Available

Extinguishing Media:

Temperature (°C):

Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water

spray

Protective Equipment:

Wear self-contained respirator and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

<u>Personal Protection:</u> Wear a self-contained breathing apparatus, rubber boots and gloves,

and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and

contact proper authorities if needed. Keep unprotected persons away.

<u>Environmental Protection:</u> Keep spills out of sewers and bodies of water. Dike and contain the spill

with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash

spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE

Handling and Storage: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin or

eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away. Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities: Hygroscopic, Moisture

Storage Temperature (°C): 2 to 8

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use product in a well ventilated area or under a fume hood. Use proper

lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Eve Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make

sure that there is an eyewash station in your vicinity.

Skin Protection: Wear impervious gloves and protective clothing.

Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or

if irritation or other symptoms are experienced.

<u>Exposure Limits:</u> <u>Country</u> <u>Source</u> <u>Type</u> <u>Value</u>

USA ACGIH TWA Not Available
USA OSHA STEL Not Available
USA OSHA PEL Not Available

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

<u>Appearance:</u> Viscous colorless liquid

Odor: Not Available

Odor Threshold: Not Available

Flash Point (°C): 132

Auto Ignition Not Available

Temperature (°C):

UEL % by Volume: Not Available

LEL % by Volume: Not Available

Melting Point (°C): -40

Boiling Point (°C): 213

<u>Evaporation Rate:</u> Not Available

pH Value: Not Available

<u>Density (g/cm³):</u> 1.322

Refractive Index (n²⁰D): 1.4800

Viscosity: Not Available

Solubility in Water: Soluble

Solubility in Other: Soluble in Alcohol, Ether

<u>Vapor Pressure (mmHq):</u> Not Available

<u>Vapor Density (Air=1):</u> Not Available

SECTION 10: STABILITY and REACTIVITY

Stability: Stable under normal temperatures and pressures.

<u>Incompatibility:</u> Oxidizing agents.

Reactivity: Product may react with incompatible materials to release other

hazardous substances.

Conditions to Avoid: Heat, flame, sparks, other ignition sources.

Hazardous Carbon oxides, Hydrogen chloride gas

Decomposition Products:

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference: TY4025000

<u>Target Organs:</u> Liver, Male reproductve system

Toxicity Data: Oral Rat LD50 mg/kg: 26.00

Dermal Rabbit LD50 mg/kg: 1056.00
Intraperitoneal Rat LD50 mg/kg: 10.00
Inhalation Rat LC50, mg/m3 - h: 125.00 - 4

<u>Carcinogenicity:</u> National Toxicology Program (NTP) listed:

Not Available

International Agency for Research on Cancer (IARC) listed: Not

Available

Potential Symptoms: Not Available

SECTION 12: ECOLOGICAL INFORMATION

<u>Toxicity:</u> Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

<u>DOT Shipping Name:</u> Glycerol Alpha-Monochlorohydrin

DOT UN Number: UN2689

DOT Hazard Class: Class 6.1

DOT Packing Group: PGIII

IMDG Shipping Name: Glycerol Alpha-Monochlorohydrin

IMDG UN Number: UN2689

IMDG Hazard Class: Class 6.1

IMDG Packing Group: PGIII

Marine Pollutant: No

<u>IATA Shipping Name:</u> Glycerol Alpha-Monochlorohydrin

IATA UN Number: UN2689

IATA Hazard Class: Class 6.1

IATA Packing Group: PGIII

SECTION 15: REGULATORY INFORMATION

United States

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No

Superfund Amendments and Reauthorization Act (SARA 313) listed: No

European Union

European Inventory of Existing Chemical Substances (EINECS): 202-492-4

GHS Classification in accordance with Regulation (EC) No 1272/2008: Yes

Canada

Canadian Domestic Substances List (DSL) listed: No

Canadian Non-Domestic Substances List (NDSL) listed: Yes

SECTION 16: OTHER INFORMATION

Date Prepared: 6/21/2023

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.