

# SAFETY DATA SHEET

Version: v1

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

### 1.1 Product identifiers

Product name : 1,3-Dichloro-2-propanol  
Product Number : D110863  
Brand : aladdin  
CAS-No. : 96-23-1

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

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Dermal (Category 4), H312

Carcinogenicity (Category 1B), H350

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H227

Combustible liquid

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|                                   |                                                                                                 |
|-----------------------------------|-------------------------------------------------------------------------------------------------|
| H301                              | Toxic if swallowed                                                                              |
| H312                              | Harmful in contact with skin                                                                    |
| H350                              | May cause cancer                                                                                |
| <b>Precautionary statement(s)</b> |                                                                                                 |
| P201                              | Obtain special instructions before use.                                                         |
| P210                              | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. |
| P202                              | Do not handle until all safety precautions have been read and understood.                       |
| P264                              | Wash hands [and ...] thoroughly after handling.                                                 |
| P270                              | Do not eat, drink or smoke when using this product.                                             |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection.                      |
| P308+P313                         | IF exposed or concerned: Get medical advice/attention.                                          |
| P370+P378                         | In case of fire: Use ... to extinguish.                                                         |
| P405                              | Store locked up.                                                                                |
| P501                              | Dispose of contents/container to an approved waste disposal plant.                              |
| P302+P352+P312                    | IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/ doctor if you feel unwell.          |
| P301+P310+P330                    | IF SWALLOWED: Rinse mouth.Immediately call a POISON CENTER/doctor/.                             |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                                                                                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms         | : Glycerol- $\alpha,\gamma$ -dichlorohydrin; Glycerol chlorohydrin; alpha,alpha'-Dichlorohydrin; Glycerol alpha,gamma-Dichlorohydrin; 1,3-Dichloro-2-hydroxypropane; $\alpha,\alpha'$ -Dichlorohydrin; |
| Formula          | : C3H6Cl2O                                                                                                                                                                                             |
| Molecular weight | : 128.99                                                                                                                                                                                               |
| CAS No.          | : 96-23-1                                                                                                                                                                                              |
| EC-NO.           | : 202-491-9                                                                                                                                                                                            |

| Component               | Classification    | Concentration                       |
|-------------------------|-------------------|-------------------------------------|
| 1,3-Dichloro-2-propanol | no data available | Standard for GC, $\geq 99.5\%$ (GC) |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician.Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

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**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

**4.2 Most important symptoms and effects, both acute and delayed**

no data available

**4.3 Indication of any immediate medical attention and special treatment needed**

no data available

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

**Unsuitable extinguishing media**

no data available

**5.2 Special hazards arising from the substance or mixture**

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Hydrogen chloride gas

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

no data available

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of  
<br/>ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours <br/>can accumul

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

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Phone: +1 (833) 552-7181 Email: [QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com) Website: <https://www.aladdinsci.com/>

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## 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. <br/> Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. <br/>

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed <br/> and kept upright to prevent leakage. <br/> Store under inert gas. <br/>

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. <br/>

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate <br/> government standards such as NIOSH (US) or EN 166(EU). <br/>

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching <br/> glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in <br/> accordance with applicable laws and good laboratory practices. Wash and dry hands. <br/> Immersion protection <br/> Material: butyl-rubber <br/> Minimum layer thickness: 0.3 mm <br/> Break through time: > 480 min <br/> Material tested: Butoject? (Aldrich Z677647, Size M) <br/> Splash protection <br/> Material: Chloroprene <br/> Minimum layer thickness: 0.6 mm <br/> Break through time: > 30 min <br/> Material tested: Camapren? (Aldrich Z677493, Size M) <br/> data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: <br/> EN374 <br/> If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the <br/> supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial <br/> Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as <br/> offering an approval for any specific use scenario. <br/>

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**Body Protection**

no data available

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

no data available

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                                 |                                              |
|-------------------------------------------------|----------------------------------------------|
| a) Appearance                                   | form: liquid color: colorless to pale yellow |
| b) Odour                                        | no data available                            |
| c) Odour Threshold                              | no data available                            |
| d) pH                                           | no data available                            |
| e) Melting point/freezing point                 | -4°C                                         |
| f) Initial boiling point and boiling range      | 174°C                                        |
| g) Flash point                                  | 85°C                                         |
| h) Evaporation rate                             | no data available                            |
| i) Flammability (solid, gas)                    | no data available                            |
| j) Upper/lower flammability or explosive limits | no data available                            |
| k) Vapour pressure                              | no data available                            |
| l) Vapour density                               | no data available                            |
| m) Relative density                             | 1.363                                        |
| n) Water solubility                             | no data available                            |
| o) Partition coefficient: n-octanol/water       | no data available                            |
| p) Auto-ignition temperature                    | no data available                            |
| q) Decomposition temperature                    | no data available                            |
| r) Viscosity                                    | no data available                            |
| s) Explosive properties N                       | no data available                            |
| t) Oxidizing properties N                       | no data available                            |

**9.2 Other safety information**

no data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

no data available

## 10.2 Chemical stability

no data available

## 10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents Strong acids Acid chlorides Acid anhydrides Alkali metals  
Alkaline earth metals

## 10.4 Conditions to avoid

Strong heating.

## 10.5 Incompatible materials

no data available

## 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 110 mg/kg

LD50 Dermal - Rabbit - 1,092 mg/kg

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

Carcinogenicity - rat - Oral <br/>Tumorigenic:Neoplastic by RTECS criteria.Liver:Tumors.Kidney, Ureter,  
Bladder:Tumors.<br/>Possible human carcinogen <br/><br/><br/>IARC: No component of this product present at  
levels greater than or equal to 0.1% is identified as <br/>probable, possible or confirmed human carcinogen by IARC.  
<br/>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a  
<br/>carcinogen or potential carcinogen by ACGIH.<br/>NTP: No component of this product present at levels greater  
than or equal to 0.1% is identified as a <br/>known or anticipated carcinogen by NTP.<br/>OSHA: No component of  
this product present at levels greater than or equal to 0.1% is identified as a <br/>carcinogen or potential carcinogen  
by OSHA.<br/>

#### Carcinogenicity

Genotoxicity in vitro - Hamster - Lungs <br/>Sister chromatid exchange <br/>Genotoxicity in vitro - Human - HeLa  
cell <br/>DNA inhibition <br/>Genotoxicity in vitro - Ames test - S.typhimurium - positive <br/>

#### Reproductive toxicity

no data available

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**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

Toxicity to fish LC50 - Carassius auratus (goldfish) - 680 mg/l - 24 h <br/>Toxicity to daphnia <br/>and other aquatic  
<br/>invertebrates <br/>EC50 - Daphnia magna (Water flea) - 983 mg/l - 24 h <br/>

**Additional Information**

RTECS: UB1400000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish LC50 - Carassius auratus (goldfish) - 680 mg/l - 24 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 983 mg/l - 24 h

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

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**SECTION 13:****13.1 Disposal considerations****Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer  
<br/>surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste  
disposal <br/>service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

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### SECTION 14: Transport information

|                                              |                                            |                                             |
|----------------------------------------------|--------------------------------------------|---------------------------------------------|
| <b>DOT (US)</b>                              |                                            |                                             |
| UN number: 2750                              | Packing group: II                          | Class: 6.1                                  |
| Proper shipping name: 1,3-Dichloropropanol-2 | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: no                    |                                            |                                             |
| <b>IMDG</b>                                  |                                            |                                             |
| UN number: 2750                              | Packing group: II                          | EMS-No: no data available                   |
| Proper shipping name: 1,3-Dichloropropanol-2 |                                            |                                             |
| <b>IATA</b>                                  |                                            |                                             |
| UN number: 2750                              | Packing group: II                          | Class: 6.1                                  |
| Proper shipping name: 1,3-Dichloropropanol-2 |                                            |                                             |

### SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### SECTION 16: Other information

|                         |                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prepared By</b>      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
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| <b>Print Date</b>       | 08-May-2025                                                                                                                                         |
| <b>Revision Summary</b> | SDS sections updated v1                                                                                                                             |

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