

SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-12

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

1.1 Product identifiers

Product name	: 1,3-Dichloropropene (cis+trans)
Product Number	: D119391
Brand	: aladdin
CAS-No.	: 542-75-6

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

Identified uses	: Laboratory chemicals, Manufacture of substances.
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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)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H226	Flammable liquid and vapor
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction

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H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/.../] equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P391	Collect spillage.
P302+P352	IF ON SKIN: wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use ... to extinguish.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.
P264+P265	Wash hands [and ...] thoroughly after handling. Do not touch eyes.
P301+P316	IF SWALLOWED: Get emergency medical help immediately.
P317	Get emergency medical help.

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P337+P317	If eye irritation persists: Get medical help.
P332+P317	If skin irritation occurs: Get medical help.
P316	Get emergency medical help immediately.
P319	Get medical help if you feel unwell.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: ['3-Chloroallyl Chloride ('cis', '-' and ', 'trans', '-' mixture)']
Formula	: C3H4Cl2
Molecular weight	: 110.97
CAS No.	: 542-75-6
EC-NO.	: 208-826-5

Component	Classification	Concentration
1,3-Dichloropropene (cis+trans)		
	no data available	≥92%(GC), mixture of cis and trans isomers

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

no data available

If inhaled

no data available

In case of skin contact

no data available

In case of eye contact

no data available

If swallowed

no data available

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

no data available

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

no data available

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear a breathing mask. Prevent inhalation of steam, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to a safe area. Prevent steam accumulation from reaching explosive concentrations, as steam can accumulate in low-lying areas.

6.2 Environmental precautions

Take measures to prevent further leaks or spills while ensuring safety. Do not let the product enter the sewer. Prevent discharge into the surrounding environment.

6.3 Methods and materials for containment and cleaning up

Collect the spilled material using an anti electric vacuum cleaner or a damp brush and place it in a container for disposal according to local regulations (see Section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Prevent inhalation of steam and smoke. Do not approach sources of fire Smoking is strictly prohibited. Take measures to prevent static electricity generation.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. The opened container must be carefully resealed and kept in an upright position to prevent leakage.

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7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Operate according to industrial hygiene and safety regulations. Wash hands before rest and at the end of work.

Personal protective equipment

Eye/face protection

Masks and safety glasses, please use equipment that has been tested and approved by official standards such as NIOSH (USA) or EN 166 (EU) to protect the eyes.

Skin protection

Gloves must be checked before use. Please use the correct method to remove the gloves (do not touch the outer surface of the gloves) and avoid any skin contact with the product. After use, please handle contaminated gloves carefully in accordance with relevant laws, regulations, and effective laboratory procedures and procedures.

Please clean and blow dry the protective gloves selected for your hands, which must comply with the specifications given in Regulation (EU) 2016/425 and the derived EN 374 standard.

Body Protection

Anti permeation clothing, flame retardant and anti-static protective clothing, and the type of protective equipment must be selected based on the concentration and content of hazardous substances in specific workplaces.

Respiratory protection

If the hazard assessment shows the need to use a gas mask with air purification, please use a full face multi-functional gas mask (US) or ABEK type (EN 14387) gas mask cartridge as a backup for engineering control. If a gas mask is the only way to protect, use a full face ventilation gas mask. The use of respirators and parts that have been tested and passed government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	97 - 112 °C (207 - 234 °F) - lit.
g) Flash point	28 °C (82 °F) - closed cup
h) Evaporation rate	no data available

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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	1.198 g/cm ³ at 25 °C (77 °F)
n) Water solubility	Insoluble in water, soluble in most organic solvents such as ethanol, ether, benzene, etc.
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

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Heat, flames, and sparks.

10.4 Conditions to avoid

Metal, Strong Oxidizing Agent

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

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Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

Can cause allergic skin reactions.

Germ cell mutagenicity

Carcinogenicity - rat oral tumorigenesis: Carcinogenicity according to RTECS standards. Gastrointestinal: Tumor Liver: Tumor Carcinogenicity - Mouse - Inhalation Tumor occurrence: Tumorigenic according to RTECS criteria. Lung, chest, or respiratory system: tumor carcinogenicity - mouse - oral tumor occurrence: carcinogenicity according to RTECS standards. Gastrointestinal: Tumors Kidney, Ureter, Bladder: Tumors This product is or contains components listed as potential carcinogens by IARC, ACGIH, EPA, and NTP 2B - Group 2B: Potential carcinogenic to humans (1,3-Dichloropropane)

Carcinogenicity

no data available

Reproductive toxicity

May cause respiratory irritation.

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

Toxicity to fish at half lethal concentration (LC50) - Pimethyles promelas (blackhead soft mouthed minnow) -0.239 mg/l -96.0 h mortality rate without detectable effective concentration - Cyprinodon variegatus (red bass) -1.2 mg/l - 96.0 h Aldrich -403733 Page 9 of 10 toxicity to water fleas and other aquatic invertebrates.

Additional Information

no data available

SECTION 12: Ecological information**12.1 Toxicity**

no data available

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

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Extremely toxic to aquatic organisms and has long-term sustained effects

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Burning treatment should be carried out in a chemical incinerator equipped with an afterburner and scrubbing equipment, especially during ignition, as this substance is highly flammable and the remaining and unrecycled solution should be handed over to the treatment company.

Contaminated packaging

Discard as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 1992	Packing group: III	Class: 3(6.1)
Proper shipping name: FLAMMABLELIQUID,TOXIC,N.O.S.(1,3-Dichloropropene)	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data available
Environmental Hazards: no		

IMDG

UN number: 1992	Packing group: III	EMS-No: no data available
Proper shipping name: FLAMMABLELIQUID,TOXIC,N.O.S.(1,3-Dichloropropene)		

IATA

UN number: 1992	Packing group: III	Class: 3(6.1)
Proper shipping name: FLAMMABLELIQUID,TOXIC,N.O.S.(1,3-Dichloropropene)		

SECTION 15: Regulatory information

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

SECTION 16: Other information

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