

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2024-10-22

Print Date: 2024-10-22

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

1.1 Product identifiers

Product name : 1,1-Dichloroethylene

Product Number : D433595
Brand : aladdin
CAS-No. : 75-35-4

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 liquid (Class 1), H224

Acute toxicity, oral (Class 3), H301

Skin corrosion/irritation (Category 2), H315

Severe eye injury/eye irritation (Category 2A), H319

Carcinogenicity (Category 2), H351

2.2 GHS Label elements, including precautionary statements

Pictogram







Signal word

word Dai

Hazard statement(s)

H224 Extremely flammable liquid and vapor



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H301 Toxic if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation
H351 Suspected of causing cancer

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.

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

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN

with water [or shower].

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.
P337+P313 IF eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use ... to extinguish.

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an approved waste disposal plant.

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 : Vinylidene chloride

Formula : C2H2C12

Molecular weight : 96.94

CAS No. : 75-35-4

EC-NO. : 200-864-0

Component Classification Concentration

1,1-Dichloroethylene



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Component	Classification	Concentration
	no data available	≥99%, contains 200 ppm MEHQ as inhibitor

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

Use dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides Hydrogen chloride gas Combustible Be careful of tempering. Vapour is heavier than air, so it can spread across the ground. When a fire occurs, it may cause the production of hazardous gases or vapors Forming explosive mixtures with air at mild temperatures

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

7.2 Conditions for safe storage, including any incompatibilities

Sensitive to humidity, 2-8 °C, argon filled storage

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection



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8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) 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

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance form: Liquid color: Colorless

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
g) Flash point no data available
h) Evaporation rate no data available
i) Flammability (solid, gas) no data available

j) Upper/lower flammability or

explosive limits no data available

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k) Vapour pressure no data available I) Vapour density no data available m) Relative density 1.213g/mLat 20°C (lit.) n) Water solubility no data available o) Partition coefficient: n-octanol/water no data available no data available p) Auto-ignition temperature q) Decomposition temperature no data available no data available r) Viscosity 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

no data available

10.4 Conditions to avoid

Heat up

10.5 Incompatible materials

Oxidants, copper, aluminum, and their alloys, peroxides, strong alkalis, oxygen

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity estimated orally -200 mg/kg

(Calculation method)

LD50 oral rat -200.0 mg/kg

Remarks: (RTECS)

Symptoms: There is a risk of aspiration into the lungs after vomiting, Aspiration and vomiting may lead to



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pulmonary dysfunction

Acute toxicity estimate inhalation -4 hours -11.1 mg/l - vapor

(Expert opinion)

Note: Classified according to EU CLP Regulation 1272/2008, Annex 6 (Table 3.1/3.2)

Transcutaneous: No data available

Skin corrosion/irritation

Skin Reconstruction of Human Epidermis (RhE) Results: No skin irritation -3-60 minutes (Regulation (EC) No.

440/2008, Annex B.40)

Serious eye damage/eye irritation

Eyes - Bovine Horn Membrane Result: Causes severe eye irritation- 10 minutes (OECD Testing Guidelines 437)

Respiratory or skin sensitisation

Local lymph node assay (LLNA) - mice Result: Negative (OECD Testing Guidelines 429)

Germ cell mutagenicity

Based on existing data, the classification criteria cannot be met. Test type: Comet experiment Species: Rat Cell type:

Bone marrow Infection route: inhalation (vapor) Method: OECD Testing Guidelines 489 Result: Positive

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

Inhalation - Long term or repeated exposure can cause damage to organs- Nose Oral - Long term or repeated exposure may damage organs- Liver

Aspiration hazard

no data available

Additional Information

Repeated Toxicity - Rats - Females - Oral -90 Days - No Harmful Effects Observed -9 mg/kg - Harmful Effects

Observed

The minimum level of -14 mg/kg

Remarks: (ECHA)

Registration of toxic effects of chemical substances: KV9275000

Nausea, headache, vomiting, dizziness, drowsiness, confusion, incompatibility, central nervous system suppression

To our knowledge, this chemical, physical, and toxic property has not been fully studied.

After absorption:

Headache

Drowsiness

Loss of consciousness

Coma

After extensive absorption:

Destruction:

Liver

Kidney



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Lung

Central nervous system

This substance needs to be handled with special caution

SECTION 12: Ecological information

12.1 **Toxicity**

Toxicity to fish LC50- Pimethyles promelas (chubby minnow) -108 mg/l -96 h Remarks: (ECOTOX database)

Toxicity static test for Daphnia magna and other aquatic invertebrates EC50- Daphnia magna -37 mg/l -48 h (OECD Test Guidelines 202)

Toxicity static test for algae EC50 Chlamydomonas reinhardtii (green algae) -9.12 mg/l -72 h Remarks: (ECHA)

Toxicity to bacteria EC50- Pseudomonas putida -> 2000 mg/l -17 h Remarks: (IUCLID)

12.2 Persistence and degradability

Result: 0% - not easily biodegradable. (OECD Testing Guidelines 301D)

12.3 Bioaccumulative potential

Cyprinus carpio -6 weeks At 25 ° C -0.5 mg/l (1,1-dichloroethylene) Bioenrichment coefficient (BCF): 2.5-6.4 (OECD Testing Guidelines 305C)

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

SECTION 13:

13.1 **Disposal considerations**

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur.

Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

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UN number: 1303 Packing group: I Class: 3

Proper shipping name: VINYLIDENE Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

CHLORIDE, STABILIZED available available

Environmental Hazards: yes

IMDG

UN number: 1303 Packing group: I EMS-No: no data available

Proper shipping name: VINYLIDENE CHLORIDE, STABILIZED

IATA

UN number: 1303 Packing group: I Class: 3

Proper shipping name: VINYLIDENE CHLORIDE, STABILIZED

SECTION 15: Regulatory information

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

SECTION 16: Other information

Regulatory Affairs

Prepared By ALADDIN SCIENTIFIC CORPORATION

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