

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2024-10-18

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

1.1 Product identifiers

Product name : Hexachloroacetone
Product Number : H109989
Brand : aladdin
CAS-No. : 116-16-5

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)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H331 Toxic if inhaled
H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

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P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P330	Rinse mouth.
P391	Collect spillage.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal plant.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Perchloroacetone;Hexachloro-2-propanone
Formula	: C3Cl6O
Molecular weight	: 264.75
CAS No.	: 116-16-5
EC-NO.	: 204-129-5

Component	Classification	Concentration
Hexachloroacetone	Acute toxicity category 4; Acute toxicity Don't 3; Acute toxicity category 5; Excessive skin Sensitivity category 1; Acute (short-term) aquatic Hazard category 2; Long term aquatic hazards Don't 2; H302, H331, H313, H317, H401, H411	≥99%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a doctor. Show this safety technical instruction to the doctor on site.

If inhaled

If inhaled, remove the patient to fresh air. If breathing stops, perform artificial respiration. Consult a doctor.

In case of skin contact

Rinse with soap and plenty of water. Send the patient to the hospital immediately. Consult a doctor.

In case of eye contact

As a precaution, rinse your eyes with water.

If swallowed

Never feed anything to an unconscious person. Rinse your mouth with water. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

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The most important known symptoms and effects are described in the label (see Chapter 2.2) and / or Chapter 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 water mist, alcohol resistant foam, dry powder or carbon dioxide to extinguish fire.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxide hydrogen chloride gas

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear a respirator. Avoid breathing vapors, aerosols or gases. Ensure adequate ventilation. Evacuate personnel to a safe area. See Part 8 for personal protection.

6.2 Environmental precautions

If safety can be ensured, measures can be taken to prevent further leakage or overflow. Do not allow the product to enter the sewer. Avoid discharge into the surrounding environment.

6.3 Methods and materials for containment and cleaning up

Absorb with inert absorbent material and treat as hazardous waste. Place in a suitable closed container for disposal.

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. Avoid breathing vapors or droplets. Avoid contact with skin, eyes and clothing.

Wash hands immediately before rest and after handling this product. See Chapter 2.2 for precautions.

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7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container closed and store in a dry and ventilated place. Open containers must be carefully resealed and kept upright to prevent leakage. Heating may explode. Heat & Moisture sensitive , Argon filled storage.

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

Avoid contact with skin, eyes and clothing. Wash hands immediately before rest and after handling this product.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(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.

Body Protection

Complete suit protecting against chemicals, 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 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

If safety can be ensured, measures can be taken to prevent further leakage or overflow. Do not allow the product to enter the sewer. Avoid discharge into the surrounding environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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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	3°C
f) Initial boiling point and boiling range	204°C
g) Flash point	113 °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	1.74-1.746
n) Water solubility	Slightly soluble in water and acetone.
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

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidant, strong alkali, metal, react with metal to release hydrogen.

10.6 Hazardous decomposition products

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In case of fire: see section 5 fire extinguishing measures

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 oral - rat - 1550 mg / kg

LC50 inhalation - rat - 4 h - 5.9 mg / L

LD50 percutaneous rabbit - 2980 mg / kg

Skin corrosion/irritation

Skin - Rabbit results: no skin irritation

Serious eye damage/eye irritation

Eyes - Rabbit results: no eye irritation

Respiratory or skin sensitisation

In vivo test - mouse skin contact can cause allergy. (OECD Test Guideline 429)

Germ cell mutagenicity

Test type: Ames test test system: Salmonella typhimurium method: mutagenicity (E. coli reverse mutation test)

results: suspicious signs

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

Toxic effect registration of chemical substances: uc2100000

Inhalation of steam can cause:, pulmonary edema

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Fish - > 1 - 10 mg / L note: information comes from references and literature.

12.2 Persistence and degradability

no data available

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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

Toxic to aquatic organisms and has long-term and sustained effects.

SECTION 13:

13.1 Disposal considerations

Product

Dispose of the remaining and non recyclable solution to a licensed company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2661

Packing group: III

Class: 6.1

Proper shipping name:

Reportable Quantity(RQ): no data
available

Poison Inhalation Hazard: no data
available

HEXACHLOROACETONE

Environmental Hazards: yes

IMDG

UN number: 2661

Packing group: III

EMS-No: no data available

Proper shipping name: HEXACHLOROACETONE

IATA

UN number: 2661

Packing group: III

Class: 6.1

Proper shipping name: HEXACHLOROACETONE

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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SDS sections updated v1

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