

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2023-10-09

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

1.1 Product identifiers

Product name : Tribromomethane
Product Number : T121971
Brand : aladdin
CAS-No. : 75-25-2

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 : 800-424-9300
CHEMTREC®, Outside the USA : 001-703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flammable liquid (category 3), H226

Acute toxicity, oral (category 4), H302

Acute toxicity, inhalation (category 3), H331

Skin corrosion/irritation (category 2), H315

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

Acute (short-term) aquatic hazard (category 2), H401

Long-term aquatic hazard (category 2), H411

2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal word	Danger
Hazard statement(s)	
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H411	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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P311	Call a POISON CENTER or doctor/...
P391	Collect spillage.
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.
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+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.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

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

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SECTION 3: Composition/information on ingredients**3.1 Substances**

Synonyms	: Bromoform
Formula	: CHBr ₃
Molecular weight	: 252.73
CAS No.	: 75-25-2
EC-NO.	: 200-854-6

Component	Classification	Concentration
Tribromomethane	Flammable liquid category 3; acute toxicity category Category 4; Acute toxicity Category 3; Skin rot Erosion/irritation category 2; serious eye damage/ Eye irritation Category 2A; Acute (short Period) Aquatic hazard category 2; long-term water Biohazard category 2; H226, H302, H331, H315, H319, H401, H411 Flammable liquid Category 2; serious eye damage Injury/eye irritation Category 2A; H225, H319	for spectroscopy,>99.0% (GC)

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice

Emergency personnel need to protect themselves. Show this safety data sheet to the doctor on site.

If inhaled

After inhalation: Move the injured to a place with fresh air. See a doctor immediately. If breathing stops: Immediately perform mechanical respiration, and use oxygen if necessary.

In case of skin contact

In case of skin contact: immediately remove/take off all contaminated clothing. Wash skin/shower with water. Call a doctor immediately.

In case of eye contact

After eye contact: Wash off with plenty of water. Call an ophthalmologist immediately. Remove contact lenses.

If swallowed

After swallowing: Let the injured drink water (maximum 2 glasses) to avoid vomiting (risk of perforation!). Call a doctor immediately. Do not try to neutralize.

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

Water, foam, carbon dioxide (CO₂) dry powder, adopt appropriate fire extinguishing measures according to the current situation and surrounding environment.

Unsuitable extinguishing media

For this substance/mixture, there are no restrictions on extinguishing agents.

5.2 Special hazards arising from the substance or mixture

Carbon oxides and hydrogen bromide are non-flammable. Flammable. Vapor is heavier than air, so it can spread over the ground. Forms explosive mixtures with air at high temperatures. Hazardous gases or vapors may be generated in the event of a fire. Surrounding fire sources may cause the release of hazardous vapors.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel Do not inhale vapors or aerosols. Avoid material contact. Ensure adequate ventilation. Keep away from heat and fire sources. Evacuate the dangerous area, follow emergency procedures, and seek expert advice. For personal protection, see section 8.

6.2 Environmental precautions

Do not let the product enter the drain. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operate under a fume hood. Do not inhale the substance/mixture. Avoid generating vapor or smoke. Keep away from open flames, hot surfaces and sources of ignition. Take measures to prevent electrostatic discharge. Change contaminated clothing immediately. Use skin protection lotion. Wash hands and face after using this substance. For preventive measures, see section 2.2.

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7.2 Conditions for safe storage, including any incompatibilities

Keep the container tightly closed and store in a dry and ventilated place. Keep away from heat and fire sources. Store this substance in a lockable place or a place where only qualified or approved persons can enter it. Protect from light

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

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 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

Do not let product enter drains.

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	8-9°C
f) Initial boiling point and boiling range	148-150°C
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
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	2.88998
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

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

There is an explosion hazard when interacting with: Acetone, potassium hydroxide, exothermic reaction: Alkaline earth metal, alkali, strong alkali, it will decompose violently after contact: alkali metal metal powder

10.4 Conditions to avoid

heating

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10.5 Incompatible materials

Strong oxidants

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity estimate Oral-933 mg/kg

(Calculation method)

LD50 Oral-Rat-933 mg/kg

Remarks: Lung, chest, or respiratory system: difficulty breathing

(RTECS)

Acute toxicity estimate Inhalation-4 h-3.1 mg/l-Vapor (calculation method)

Acute toxicity estimate Inhalation-Expert opinion-4 h-3.1 mg/l-Vapor

Skin corrosion/irritation

Skin-In vitro test results: Corrosive effects occur when exposed to contact for 4 hours or less. (OECD Test Guideline 431)

Serious eye damage/eye irritation

Causes serious eye irritation. Classification according to EU CLP Regulation 1272/2008, Annex 6 (Table 3.1/3.2)

Respiratory or skin sensitisation

Chemical skin sensitization-direct peptide response test (DPRA)-skin protein Result: non-skin sensitizer (OECD Test Guideline 442C)

Germ cell mutagenicity

According to the available data, the classification conditions cannot be met. Test type: Ames test Test system:

Salmonella typhimurium Metabolism activation: With or without metabolic activation Method: OECD Test Guideline 471 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

no data available

Aspiration hazard

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no data available

Additional Information

Registration of Toxic Effects of Chemical Substances: PB5600000

As far as we know, the chemical, physical and toxic properties have not been fully studied.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50-Lepomis macrochirus (bluegill sunfish)-29 mg/l-96 h

Remarks: (ECHA)

No ridge to water flea and other aquatic species

Toxicity of Vertebral Animals

Static test EC50-Daphnia magna (Water flea)-46 mg/l-48 h

Remarks: (ECHA)

Toxicity to algae static test ErC50-Pseudokirchneriella subcapitata-13 mg/l-72 h

(OECD Test Guideline 201)

Static test NOEC-Pseudokirchneriella subcapitata-2.8 mg/l-72 h

(OECD Test Guideline 201)

Toxicity to bacteria static test EC50-activated sludge-> 1,000 mg/l-3 h

(OECD Test Guideline 209)

Static test NOEC-activated sludge-<10 mg/l-3 h

(OECD Test Guideline 209)

12.2 Persistence and degradability

Aerobic-Exposure time 28 d Result: 6%-Not easily biodegradable quickly. (OECD Test Guideline 301D)

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

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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)

UN number: 2515

Packing group: III

Class: 6.1

Proper shipping name: Bromoform

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: no data available

IMDG

UN number: 2515

Packing group: III

EMS-No: no data available

Proper shipping name: Bromoform

IATA

UN number: 2515

Packing group: III

Class: 6.1

Proper shipping name: Bromoform

SECTION 15: Regulatory information

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

SECTION 16: Other information

Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

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SDS sections updated v1

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