

1,1,1-Trichlorotrifluoroacetone: sc-258860



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: 1,1,1-Trichlorotrifluoroacetone
Catalog Number: sc-258860
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

Section 2: Hazards identification

Classification of the substance or mixture

Classification under CHIP

R23/24/25 T
R34 C

Classification under CLP

H301+H311+331 Acute Tox. 3
H314 Skin Corr. 1B

Most important adverse effects: Toxic by inhalation, in contact with skin and if swallowed. Causes burns.

Label elements under CLP

Hazard statements

H314 Causes severe skin burns and eye damage.
H301+H311+331 Toxic if swallowed, in contact with skin or if inhaled.

Hazard pictograms

GHS05: Corrosion
GHS06: Skull and Crossbones



Signal words Danger

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P309+311 If exposed or if you feel unwell: Call a POISON CENTER or doctor.

Label elements under CHIP

Hazard symbols



Toxic

Risk phrases

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes skin burns.

Safety phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye / face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

Chemical identity: 1,1,1-Trichlorotrifluoroacetone
Formula: C₃Cl₃F₃O
Molecular Weight: 215.39
CAS Number: 758-42-9

Section 4: First aid measures**Skin contact :**

Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact:

Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion:

Wash out mouth with water. Do not induce vomiting. If conscious, give half a liter of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation:

Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

Most important symptoms and effects, both acute and delayed

- Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.
- Eye contact:** There may be severe pain. The eyes may water profusely.
- Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

Section 5: Fire-fighting measures**Extinguishing media**

Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Special hazards arising from the substance or mixture

In combustion emits toxic fumes of carbon dioxide/ carbon monoxide, hydrogen chloride (HCl), hydrogen fluoride (HF).

Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Notify the police and fire brigade immediately. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions

Do not discharge into drains or rivers.

Methods and material for containment and cleaning up

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Section 7: Handling and storage

Precautions for safe handling

Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air. Only use in fume hood.

Conditions for safe storage, including any incompatibilities

Store in cool, well ventilated area. Keep container tightly closed. Store under Argon at room temperature.

Suitable packaging

Must only be kept in original packaging.

Section 8: Exposure controls/personal protection

Control parameters

Workplace exposure limits

Not applicable.

Exposure controls

Engineering measures

Ensure there is sufficient ventilation of the area.

Respiratory protection

Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection

Protective gloves.

Eye protection

Safety glasses. Ensure eye bath is on hand.

Skin protection

Impermeable protective clothing.

Section 9: Physical and chemical properties

Form	Liquid	Odor	No data available
Evaporation rate	No Data Available	Oxidizing	No data available
Solubility in water	No Data Available	Also soluble in	No data Available
Viscosity	Not available	Boiling point/range°C	86-89° C
Melting point/range°C	Not known	Flash point°C	Not known
Part.coeff. n-octanol/water	Not known	Vapor pressure	Not known
Relative density	1.59	pH	Not known
VOC g/l	Not known		

Section 10: Stability and reactivity

Reactivity

Stable under recommended transport or storage conditions.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

Conditions to avoid

Heat. Hot surfaces. Flames.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition products

In combustion emits toxic fumes of carbon oxides, hydrogen chloride, hydrogen fluoride.

Section 11: Toxicological information

Information on toxicological effects

Relevant hazards for substance

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	INH DRM ING	Based on test data
Serious eye damage/irritation	OPT	Based on test data
Skin corrosion/irritation	DRM	Based on test data

Symptoms / routes of exposure

- Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.
- Eye contact:** There may be severe pain. The eyes may water profusely.
- Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be a loss of consciousness.

Section 12: Ecological information

Toxicity

Ecotoxicity values: No data available

Persistence and degradability

No data available.

Bioaccumulative potential

No data available

Mobility in soil

No data available.

Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

Other adverse effects

No data available.

Section 13: Disposal considerations

Waste treatment methods

Disposal operations

MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

Disposal of packaging

Dispose of as special waste in compliance with local and national regulations Observe all federal, state and local environmental regulations.

NB

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

UN number

UN number: UN2810

UN proper shipping name

Shipping name: Toxic, liquids, organic, n.o.s.

Transport hazard class(es)

Transport class: 6.1

Packing group

Packing group: II

Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

Special precautions for user

Tunnel code: E
Transport category: 3

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

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