



**Indication of immediate medical attention and special treatment needed, if necessary:****Notes to physician:** Treat symptomatically.**Specific treatments:** Show this safety data sheet to the doctor in attendance.**SECTION 5 FIRE-FIGHTING MEASURES****Suitable (and unsuitable) extinguishing media:**Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).**Specific hazards arising from the chemical:**

Contents under pressure. Pressurized container may explode when heated.

**Special protective equipment for fire-fighters:** Use appropriate equipment for surrounding fire.**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal precaution, protective equipment and emergency procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. See Section 8 of the SDS for Personal Protective Equipment.**Methods and materials for containment and cleaning-up:**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Following product recovery, flush area with water.

**Environmental precautions:**

Avoid discharge into drains, water courses or onto the ground.

**SECTION 7 HANDLING AND STORAGE****Precautions for safe handling:** Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.**Conditions for safe storage, including any incompatibilities:** KEEP OUT OF REACH OF CHILDREN. Contents under pressure.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store locked up. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

<u>Chemical name</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NIOSH REL</u>
Trichloroethylene	79-01-6	TWA: 50 ppm STEL: 200 ppm	TWA: 10 ppm STEL: 25 ppm	—

**Appropriate engineering controls:** Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.**Individual protection measures (PPE):**

Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

**Eye protection:** Wear safety glasses with side shields. If splash potential exists, wear full face shield or chemical goggles.**Hand protection:** Wear suitable protective gloves.**Skin and body protection:** If major exposure is possible, wear suitable protective clothing and footwear.**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be implemented whenever workplace conditions warrant use of a respirator.**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear liquid in aerosol can	U/L flammability or explosive limits	Not determined
Odor	Sweet / Pungent	Vapor pressure	Not determined
Odor threshold	Not determined	Vapor density	4.5 (Air = 1)
pH	Not applicable	Relative density (specific gravity)	1.45
Melting point/freezing point	-124°F (-86°C)	Solubility(ies)	Negligible
Initial boiling point and boiling range	183-190°F (84-88°C)	Partition coefficient: n-octanol/water	Not determined
Flash point	Not applicable	Auto-ignition temperature	420°C
Evaporation rate	3.6 (n-butyl acetate = 1)	Decomposition temperature	Not determined
Flammability (solid, gas)	Not determined	Viscosity	Not determined

**SECTION 10 STABILITY AND REACTIVITY****Reactivity:** No dangerous reaction known under conditions of normal use.**Chemical stability:** Stable under normal temperature conditions and recommended use.

**Possibility of hazardous reactions:** Hazardous polymerization does not occur.

**Conditions to Avoid:** Heat, flames and sparks. Ignition sources. Contact with incompatible materials.

**Incompatible materials:** Strong oxidizing agents, alkalis, finely divided aluminum.

**Hazardous decomposition products:** Carbon dioxide, carbon monoxide, chlorine compounds, phosgene.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure:**

**Ingestion:** May cause discomfort if swallowed.

**Inhalation:** May cause drowsiness, dizziness, headache, or nausea. Vapors have a narcotic effect.

**Eye contact:** Causes serious eye irritation.

**Skin contact:** Causes skin irritation.

**Symptoms related to the physical, chemical and toxicological characteristics:** Irritation. Drowsiness and dizziness. May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

**Numerical measure of toxicity, component information:**

Chemical name	CAS	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Trichloroethylene	79-01-6	4,920 mg/kg (rat)	20 ml/kg (rabbit)	12,000 mg/L, (rat) 4 hours

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/irritation:** Causes serious eye irritation.

**Respiratory sensitization:** Not assigned.

**Skin sensitization:** May cause skin sensitization.

**Germ cell mutagenicity:** Suspected of causing genetic defects.

**Carcinogenicity:** Trichloroethylene (79-01-6)

IARC: Probably carcinogenic to humans Group 2A.

ACGIH: A2: Suspected human carcinogen.

NTP: Reasonably anticipated to be a human carcinogen.

OSHA: Not listed.

**Reproductive Toxicity:** No toxicity to reproduction.

**Specific target organ toxicity, single exposure:** May cause drowsiness or dizziness. Narcotic effects.

**Specific target organ toxicity, repeated exposure:** No data available.

**Chronic effects:** Prolonged inhalation may be harmful.

**Further information:** Solvents may degrease the skin.

## SECTION 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulation potential:** No information available.

**Mobility in soil:** No information available.

**Other adverse effects:** None known.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Unused product:** This product, as sold, if discarded or disposed, is a hazardous waste according to federal regulations. Dispose of container and contents in accordance with local, regional, national and international regulations.

**Contaminated containers or packaging:** Dispose of packaging or containers in accordance with local, regional, national and international regulations.

## SECTION 14 TRANSPORT INFORMATION

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT (ground), IMDG	Aerosols, Limited Quantity	UN1950	–	2.2, 6.1 (PGIII)
IATA	Check regulations for proper air shipment			

## SECTION 15 REGULATORY INFORMATION

**TSCA:** All components of this product are on the U.S. Toxic Substances Control Act (TSCA) Chemical Substances Inventory or are exempt.

**CERCLA:** Trichloroethylene (79-01-6); RQ 100 lbs.

**SARA TITLE III:**

**Section 311/312 Hazard Category:**

Acute: Yes

Chronic: Yes

Fire: No

Pressure: Yes

Reactive Hazard: No

**Section 313 Reportable Ingredients:** Trichloroethylene (79-01-6)

**CALIFORNIA (Proposition 65):** WARNING: This product contains the following chemicals known to the State of California to cause cancer and birth defects or other reproductive harm: Trichloroethylene (79-01-6).

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**SECTION 16 OTHER INFORMATION**

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