

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 830.00

Revision Date: May 21, 2015

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Trichloroethylene

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Carcinogenicity (Category 1). May cause cancer (H350). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Hazard class: Specific target organ toxicity, single exposure (Category 2). May cause damage to organs (H371). Do not eat, drink or smoke when using this product (P270).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name                         | CAS Number | Formula                     | Formula Weight | Concentration |
|--|------------|-----------------------------|----------------|---------------|
| Trichloroethylene                      | 79-01-6    | $\text{ClCH}_2\text{CCl}_2$ | 131.39         |               |
| Synonym: 1-Chloro-2,2-dichloroethylene |            |                             |                |               |

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Combustible liquid. Has difficulty burning.

Flammable limits: Lower: 7.8% Upper: 52% at 100 °C Autoignition Temperature: 420 °C

When heated to decomposition, may emit toxic fumes.

**In case of fire:** Use a tri-class dry chemical fire extinguisher.

NFPA CODE

H-2

F-1

R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain spill with sand or other inert absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Organic #4. Store with ethers, ketones, and halogenated hydrocarbons. Light sensitive. Slowly decomposes (forming hydrochloric acid) by light in the presence of moisture. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor™ can. Use and dispense in a hood.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Exposure guidelines: PEL 100 ppm, Ceiling 200 ppm (OSHA); TLV 269mg/m<sup>3</sup>, STEL 25 ppm (ACGIH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Colorless liquid. Chloroform-like odor.

Soluble: Miscible with most organic solvents. Insoluble in water.

Boiling point: 86.9 °C

Melting point: -84 °C

Specific gravity: 1.4904

Vapor density: 4.5

Vapor pressure: 61 mmHg

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid oxidizing agents, reducing agents and strong bases. May decompose if exposed to light, aluminum or magnesium. Shelf life: Indefinite, if stored properly. See Section 7 for further information.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Harmful vapor, severe irritant, GI disturbances, nausea, dizziness, and headache.

Chronic effects: Dermatitis, mutagen, probable carcinogen.

Target organs: Nerves, liver, kidneys, heart, lungs.

ORL-RAT LD<sub>50</sub>: 4920 mg/kg

IHL-MUS LC<sub>50</sub>: 8450 ppm/4H

SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #27j is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Trichloroethylene. Hazard class: 6.1, Keep away from food. UN number: UN1710.

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (201-167-4), RCRA code U228.

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**SECTION 16 — OTHER INFORMATION**

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

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