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## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MATHESON TRI-GAS, INC.**  
**959 ROUTE 46 EAST**  
**PARSIPPANY, NEW JERSEY 07054-0624**

**EMERGENCY CONT**  
**CHEMTREC 1-800-42**  
**INFORMATION CON**  
**973-257-1100**

**SUBSTANCE: TRIFLUOROIODOMETHANE**

**TRADE NAMES/SYNONYMS:**

TRIFLUOROMETHYL IODIDE; **IODOTRIFLUOROMETHANE**;  
MONOIODOTRIFLUOROMETHANE; PERFLUOROMETHYL IODIDE; CF3I; 00229444

**CHEMICAL FAMILY:** halogenated

**CREATION DATE:** Feb 26 2003

**REVISION DATE:** Mar 19 2003

### 2. COMPOSITION INFORMATION ON INGREDIENTS

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

**COMPONENT:** TRIFLUOROIODOMETHANE

**CAS NUMBER:** 2314-97-8

**PERCENTAGE:** 100

## 3. HAZARDS IDENTIFICATION

**NFPA RATINGS (SCALE 0-4):** HEALTH=2 FIRE=0 REACTIVITY=0

**EMERGENCY OVERVIEW:**

**PHYSICAL FORM:** gas

**MAJOR HEALTH HAZARDS:** respiratory tract irritation, skin irritation, eye irritation

**PHYSICAL HAZARDS:** Containers may rupture or explode if exposed to heat.

**POTENTIAL HEALTH EFFECTS:****INHALATION:**

**SHORT TERM EXPOSURE:** irritation

**LONG TERM EXPOSURE:** no information on significant adverse effects

**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** irritation

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**LONG TERM EXPOSURE:** irritation

**EYE CONTACT:**

**SHORT TERM EXPOSURE:** irritation

**LONG TERM EXPOSURE:** irritation

**INGESTION:**

**SHORT TERM EXPOSURE:** ingestion of harmful amounts is unlikely

**LONG TERM EXPOSURE:** ingestion of harmful amounts is unlikely

#### 4. FIRST AID MEASURES

**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if breathing is difficult. Get immediate medical attention.

**SKIN CONTACT:** Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

**EYE CONTACT:** Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

**INGESTION:** If a large amount is swallowed, get medical attention.

#### 5. FIRE FIGHTING MEASURES

**FIRE AND EXPLOSION HAZARDS:** Negligible fire hazard. Containers may rupture or explode if exposed to heat.

**EXTINGUISHING MEDIA:** carbon dioxide, regular dry chemical

Large fires: Use regular foam or flood with fine water spray.

**FIRE FIGHTING:** Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately if you hear a rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or truck, evacuation radius: 800 meters (1/2 mile). Use extinguishing agents appropriate for surrounding materials. Cool containers with water spray until well after the fire is out. Apply water from a protected location from a safe distance. Do not get water directly on material. Reduce vapors with water spray. Avoid breathing vapors or dust. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Consider downwind evacuation if material is leaking.

#### 6. ACCIDENTAL RELEASE MEASURES

**OCCUPATIONAL RELEASE:**

Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area entry. Stay upwind and keep out of low areas.

**7. HANDLING AND STORAGE**

**STORAGE:** Store and handle in accordance with all current regulations and standards. Subject regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.

**8. EXPOSURE CONTROLS, PERSONAL PROTECTION****EXPOSURE LIMITS:****TRIFLUOROIODOMETHANE:**

No occupational exposure limits established.

**VENTILATION:** Provide local exhaust ventilation system. Ensure compliance with applicable limits.

**EYE PROTECTION:** Wear splash resistant safety goggles with a faceshield. Provide an emergency wash fountain and quick drench shower in the immediate work area. Eye protection not required.

**CLOTHING:** Wear appropriate chemical resistant clothing. Protective clothing is not required.

**GLOVES:** Wear appropriate chemical resistant gloves.

**RESPIRATOR:** Under conditions of frequent use or heavy exposure, respiratory protection m  
Respiratory protection is ranked in order from minimum to maximum. Consider warning prop  
use.

**For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with full facepiece and operated in a pressure-demand or other posi  
mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** gas

**ODOR:** Not available

**MOLECULAR WEIGHT:** 195.91

**MOLECULAR FORMULA:** C-F3-I

**BOILING POINT:** -9 F (-23 C)

**FREEZING POINT:** Not available

**VAPOR PRESSURE:** Not available

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**VAPOR DENSITY:** Not available

**DENSITY:** Not available

**WATER SOLUBILITY:** Not available

**PH:** Not applicable

**VOLATILITY:** Not applicable

**ODOR THRESHOLD:** Not available

**EVAPORATION RATE:** Not applicable

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not applicable

## 10. STABILITY AND REACTIVITY

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**REACTIVITY:** Stable at normal temperatures and pressure.

**CONDITIONS TO AVOID:** Protect from physical damage and heat. Containers may rupture exposed to heat.

**INCOMPATIBILITIES:** oxidizing materials

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products: acid halides, oxides of carbon

**POLYMERIZATION:** Will not polymerize.

## 11. TOXICOLOGICAL INFORMATION

**TRIFLUOROIODOMETHANE:****LOCAL EFFECTS:**

Irritant: inhalation, skin, eye

## 12. ECOLOGICAL INFORMATION

Not available

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

## 14. TRANSPORT INFORMATION

**U.S. DOT 49 CFR 172.101:****PROPER SHIPPING NAME:** Compressed gas, n.o.s. (TRIFLUOROIODOMETHANE)**ID NUMBER:** UN1956**HAZARD CLASS OR DIVISION:** 2.2**LABELING REQUIREMENTS:** 2.2**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:****SHIPPING NAME:** Compressed gas, n.o.s. (TRIFLUOROIODOMETHANE)**UN NUMBER:** UN1956**CLASS:** 2.2**15. REGULATORY INFORMATION****U.S. REGULATIONS:****CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.**SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 304.71):** Not regulated.**SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 311.12):**

ACUTE: Yes

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: Yes

**SARA TITLE III SECTION 313 (40 CFR 372.65):** Not regulated.

**OSHA PROCESS SAFETY (29CFR1910.119):** Not regulated.

**STATE REGULATIONS:**

**California Proposition 65:** Not regulated.

**CANADIAN REGULATIONS:**

**WHMIS CLASSIFICATION:** Not determined.

**NATIONAL INVENTORY STATUS:**

**U.S. INVENTORY (TSCA):** Listed on inventory.

**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

**CANADA INVENTORY (DSL/NDSL):** Not determined.

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16. OTHER INFORMATION

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