

# MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

## SECTION I - PRODUCT IDENTIFICATION

**Product Name:** Si-1000 - Chlorinated - Dual Spray Valve  
**Product Number:** 550  
**Product Type:** AEROSOL  
**Supplier's Name:** Superior Industries, Inc.  
**Supplier's Address:** P.O. Box 8, Chattanooga, TN. 37421  
**D.O.T. Hazard Class:** CONSUMER COMMODITY, ORM-D

**Formula:** Proprietary  
**Date Prepared:** 01/06/09  
**Emergency Phone:** (800) 476-2072  
**Information Phone:** (423) 899-0467

**HMIS Rating** (Based on Aerosol Conc.):  
0-Minimal 1- Slight 2- Moderate  
3- Serious 4- Extreme  
**HEALTH:** 2 **FIRE:** 0 **REACTIVITY:** 1  
**Personal Protection :** G

## SECTION II - INGREDIENTS

CHEMICAL NAME	CAS #	%WT	313/Chem	Skin	Carcinogen	PEL	TLV - TWA
Trichloroethylene	79-01-6	90-100	YES	NO	YES	100 ppm	10 ppm
Isopropyl Alcohol	67-63-0	01-10	NO	NO	NO	400 ppm	400 ppm
Butylene Oxide	106-88-7	< 0.5	YES	NO	YES	N/E	2 ppm*
Carbon Dioxide Propellant	124-38-9	01-10	NO	NO	NO	10,000 ppm	10,000 ppm

\*Recommended Workplace Environmental Exposure Level (WEEL).

## SECTION III - PHYSICAL DATA

**Data Below Based On Aerosol Concentrate Only:**

Boiling Point: ~186° F

pH: N/A

Solubility In Water: negligible

Appearance/Odor: Clear, colorless liquid / Ether-like odor

Vapor Density(Air=1): 4.5

Specific Gravity (H<sub>2</sub>O=1)@75°F: 1.419

**Data Below Based On Total Contents:**

Vapor Pressure of can (psig @70°F): 90

Total VOC %: 97 %

## SECTION IV - FIRE AND EXPLOSION DATA

**Flash Point** (of Concentrate Only): None to Boiling

**Flammability** (as per USA Flame Projection Test): Non-Flammable Spray

**Extinguishing Media:** Foam, CO<sub>2</sub>, Dry Media

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

**Unusual Fire and Explosion Hazards:** Exposure to temperature above 120° F may cause bursting.

## SECTION V - REACTIVITY DATA

**Stability:** Material Stable.

**Hazardous Polymerization:** Will not Occur.

**Incompatibility:** Avoid contact with strong oxidizing agents,

**Hazardous Decomposition Products:** Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride, Small amount of Phosgene.

## SECTION VI - STORAGE AND HANDLING

**KEEP OUT OF REACH OF CHILDREN.**

For Industrial and Institutional use only.

Store in a cool, dry area away from heat or open flame.

Do not store at temperatures above 120° F.

**NFPA Code 30B Rating:** Level 1 Aerosol.

## SECTION VII - HEALTH AND FIRST AID

**PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:**

**Eyes:** Causes severe irritation, redness, tearing, and blurred vision.

**Skin:** Frequent or prolonged contact may cause irritation and possibly dermatitis. May aggravate existing skin conditions.

**Inhalation:** Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the upper respiratory tract and central nervous system effects, including dizziness nausea, headaches, unconsciousness, or death. Long-term overexposure may cause liver or kidney injury..

**Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis and pulmonary edema.

**FIRST AID PROCEDURES:**

**Eyes:** Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.

**Skin:** Wash with soap and water. If irritation persists seek medical attention.

**Inhalation:** Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.

**Ingestion:** Do not induce vomiting. Seek medical attention immediately.

## SECTION VIII - SPECIAL PROTECTION DATA

**Respiratory Protection:** If workplace exposure limits are exceeded (see Section II), use a NIOSH approved air purifying respirator for single short-term exposure. Use a positive-pressure, air-supplied respirator for multiple or long-term exposures.

**Ventilation:** Provide local exhaust to keep air concentrations of ingredients listed in Section II below established exposure limits.

**Protective Gloves:** Use chemical resistant gloves to help prevent skin contact.

**Eye Protection:** Always wear safety glasses or chemical proof goggles when working with chemicals.

## SECTION IX - SPILL OR LEAK PROTECTION

**STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:** Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. No smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.

**WASTE DISPOSAL METHOD:** Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approved procedures.

N/A= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · <=LESS THAN · >=MORE THAN

**NOTICE:** The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

# MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

## SECTION I - PRODUCT IDENTIFICATION

**Product Name:** Si-1000 Chlorinated

**Product Number:** 2-521-05

**Product Type:** Bulk Liquid

**Supplier's Name:** Superior Industries, Inc.

**Supplier's Address:** P.O. Box 8, Chattanooga, TN 37401

**DOT Shipping Description:** Toxic, Liquids, Organic, N.O.S. (Trichloroethylene), 6.1, UN1710, PGIII

**Formula:** Proprietary

**Date Prepared:** 02/07/09

**Emergency Phone:** (800) 476-2072

**Information Phone:** (423) 899-0467

**HMIS Rating** (Based on Aerosol Conc.):

0-Minimal 1- Slight 2- Moderate

3- Serious 4- Extreme

HEALTH: 2 FIRE: 0 REACTIVITY: 0

**Personal Protection :** G

## SECTION II - INGREDIENTS

CHEMICAL NAME	CAS #	%WT	313/Chem	Skin	Carcinogen	PEL	TWA/TLV
Trichloroethylene	79-01-6	80-100	YES	NO	YES	50 ppm	50 ppm

## SECTION III - PHYSICAL DATA

**Boiling Point:** ~154.4°F

**Solubility In Water:** Insoluble

**Appearance/Odor:** Clear Liquid, Solvent Odor

**Total VOC %:** 100 %

**Vapor Density (Air=1):** >1

**Specific Gravity (H<sub>2</sub>O=1)@75°F:** 1.419

## SECTION IV - FIRE AND EXPLOSION DATA

**Flash Point:** None to boil (158°F)

**Extinguishing Media:** Water Fog, Foam, CO<sub>2</sub>, Dry Media

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

**Unusual Fire and Explosion Hazards:** Exposure to temperature above 120°F may cause bursting.

## SECTION V - REACTIVITY DATA

**Hazardous Polymerization:** Will not occur.

**Stability:** Material Stable.

**Incompatibility:** Avoid contact with strong oxidizing agents,

**Hazardous Decomposition Products:** Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, small amounts of Phosgene.

## SECTION VI - STORAGE AND HANDLING

**KEEP OUT OF REACH OF CHILDREN.**

For Industrial and Institutional use only.

Store in a cool, dry area away from heat or open flame.

Do not store at temperatures above 120°F.

## SECTION VII - HEALTH AND FIRST AID

**PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:**

**Eyes:** Causes pain, redness and irritation.

**Skin:** Frequent or prolonged contact may cause irritation.

**Inhalation:** Inhalation may result in nervous system depression. Inhalation of mist can cause irritation of nasal and respiratory passages.

Abusive or excessive inhalation may cause irritation to the upper respiratory tract, dizziness, nausea and other central nervous system effects including, but not limited to, ventricular fibrillation, cardiac failure or death.

**Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis.

**FIRST AID PROCEDURES:**

**Eyes:** Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. Get medical attention immediately.

**Skin:** Wash with plenty of soap and water. If irritation persists seek medical attention.

**Inhalation:** Remove to fresh air. If continued difficulty is experienced, seek medical attention immediately. If breathing stops give artificial respiration.

**Ingestion:** If conscious: Drink large amounts of water. Do not induce vomiting. Seek medical attention immediately. If unconscious: Do not attempt to give anything by mouth to an unconscious person. Seek medical attention immediately.

**Notes to Physician:** Only administer Adrenaline after careful consideration following Trichloroethylene overexposure. Increased sensitivity of the heart to Adrenaline may be caused by overexposure to Trichloroethylene.

## SECTION VIII - SPECIAL PROTECTION DATA

**Respiratory Protection:** None needed for proper use in accordance with label directions. If ventilation is not adequate to reduce vapors below Threshold Limit Value (TLV) levels, use a NIOSH/MSHA approved air-purifying respirator equipped with an organic vapor cartridge.

**Ventilation:** Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.

**Protective Gloves:** Use chemical resistant gloves if hand contact will be made.

**Eye Protection:** Wear chemical proof splash goggles or face shield with safety glasses for splash protection.

## SECTION IX - SPILL OR LEAK PROTECTION

**STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:** Maintain local exhaust and adequate ventilation. No smoking.

Keep sparks, heat sources and open flame far away from spill or leak. Cover with suitable absorbent material and sweep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.

**WASTE DISPOSAL METHOD:** Consult Federal, State and local authorities for approved procedures.

N/A= NOT APPLICABLE . N/E=NOT ESTABLISHED . N/D=NOT DETERMINED . <=LESS THAN . >=MORE THAN

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