

MATERIAL SAFETY DATA SHEET
Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Date of Prep: 2/1/00

SECTION 1

SUNNYSIDE CORPORATION
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 EMERGENCY TELEPHONE

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FOR INFORMATION:

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- SUNNYSIDE CORPORATION
 - CHEM TREC

Product Class: Chlorinated Hydrocarbon
 Trade Name: TRICHLOROETHYLENE
 (Carbo-Sol)

Manufacturer's Code:
 NPCA HMIS:

864
 HEALTH: 2
 FIRE: 1
 REACTIVITY: 0

Product Appearance and Odor: Clear, colorless liquid with sweet odor.

SECTION 2 -- HAZARDOUS INGREDIENTS**OCCUPATIONAL EXPOSURE LIMITS**

INGREDIENT	CAS #	PERCENT	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL (TWA)	OSHA PEL (STEL)	VAPOR PRESSURE
Trichloroethylene	79-01-6		50 PPM	100 PPM	100 PPM	200 PPM	73 MM Hg @ 25° C.

SECTION 3 -- EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration. Get medical attention immediately.
 Eye Contact: Flush eyes immediately with water for at least 15 minutes. Get medical attention.
 Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation persists.
 Ingestion: Do not induce vomiting. Contact physician or emergency medical facility immediately.
 NOTE TO PHYSICIAN: Adrenalin should never be given to persons overexposed to Trichloroethylene.

SECTION 4 -- PHYSICAL DATA

The following data represent approximate or typical values. They do not constitute product specifications.

Boiling Range: 188° (F) - I.B.P. Vapor Density: Heavier than air
 Evaporation Rate: Slower than ether
 Weight Per Gallon: 12.11 lbs. % Volatile By Volume: 100%
 Solubility in Water: 1.11% (By Weight)

SECTION 5 -- FIRE AND EXPLOSION DATA

Flammability Classification: Non-Flammable.
 Flash Point: None (Tag, Closed Cup)
 Autoignition Temperature: 770° F.
 Lower Explosive Limit: 8.0%
 Extinguishing Media: Water fog, dry chemical, foam, carbon dioxide. Do not use direct water stream. It will spread fire.
 Unusual Fire and Explosion Hazards: Concentrated vapors can be ignited by high intensity ignition source. Thermal decomposition generates toxic and irritating vapors.
 Special Fire Fighting Procedures: Firefighters should wear self-contained positive pressure breathing apparatus. Storage containers exposed to fire should be kept cool with a water spray, in order to prevent pressure build-up.

SECTION 6 -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: EFFECTS OF OVEREXPOSURE	50 PPM TWA-8 hour (ACGIH)
Acute:	Excessive inhalation may produce symptoms of central nervous system depression ranging from light-headedness to unconsciousness and death. Ingestion may produce gastrointestinal irritation with nausea, vomiting, stomach cramps and diarrhea. Exposure of eyes and skin may produce irritation.
Chronic:	Can cause headache, mental confusion, depression, fatigue, loss of appetite, nausea, vomiting, cough, loss of sense of balance and vision disturbances. Chronic overexposure to Trichloroethylene has caused toxic effects in the liver, lymphatic, kidney and cardiovascular system of laboratory animals. Humans exposed to Trichloroethylene can become intolerant to Ethyl Alcohol, with small quantities causing inebriation and skin blotches.
ROUTES OF EXPOSURE: Inhalation:	Major route of potential exposure. Depresses the central nervous system. Symptoms of overexposure include headache, nausea, vomiting, dizziness, vertigo, fatigue, lightheadedness and coughing.
Skin:	Absorption of liquid through intact skin is a possible but unlikely route of significant exposure. Prolonged or repeated contact may cause irritation, defatting of skin, and dermatitis.
Eyes:	Liquid may cause pain, and slight temporary injury to eyes. Vapors can irritate eyes.
Ingestion:	Unlikely route of exposure. Single dose toxicity low to moderate. If vomiting occurs, Trichloroethylene can be aspirated into lungs, which can cause chemical pneumonia and systemic effects.
Medical Conditions Aggravated by Exposure:	Acute and chronic liver and kidney disease, rhythm disorders of the heart, neuritis and other nervous system disorders.
Carcinogenicity:	The International Agency for Research on Cancer (IARC) has concluded that there is sufficient evidence for the carcinogenicity of Trichloroethylene to experimental animals, and limited evidence for the carcinogenicity of Trichloroethylene to humans, resulting in a classification in Group 2A as a substance probably carcinogenic to humans. The ACGIH has classified Trichloroethylene in category A5 as an agent not suspected as a human carcinogen. Trichloroethylene is listed on the IARC carcinogen list, but not by OSHA or NTP.
Reproductive Toxicity:	Reproductive toxicity tests have been conducted to evaluate the adverse potential effects Trichloroethylene may have on reproduction and offspring of laboratory animals. Results indicate that Trichloroethylene does not cause birth defects in mice, rats or rabbits.
Note to Physician:	Adrenalin should never be given to persons overexposed to Trichloroethylene.

SECTION 7 -- REACTIVITY DATA

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat, open flame or electrical arcs.
Incompatibility (Materials to Avoid):	Avoid contacting this product with pure oxygen or alkali metals.
Hazardous Decomposition Products:	At high temperatures this product decomposes to give off hydrogen chloride vapor and small quantities of other toxic and irritating vapors.
Hazardous Polymerization:	Not known to occur.

SECTION 8 -- SPILL OR LEAK PROCEDURES

Steps to be taken in case material is spilled or released: Remove ignition sources, evacuate area, avoid breathing vapor or contact with liquid. Recover free liquid or stop leak if possible. Dike large spills and use absorbent material for small spills. Keep spilled material out of sewers, ditches and bodies of water. Avoid contaminating ground and surface waters.

Waste disposal method: Send to a licensed reclaimer or incinerator. Dispose of in accordance with local, state and federal regulations.

SECTION 9 -- SAFE HANDLING AND USE INFORMATION

Respiratory Protection:	Not required under normal use. Use a NIOSH/MSHA approved respirator where mist, spray or vapor is generated and exceeds TLV.
Ventilation:	Do not use in closed or confined space. Open doors and/or windows. Use ventilation to maintain exposure levels below 50 PPM (TWA).
Protective Gloves:	Wear solvent-resistant gloves such as Viton, Polyvinyl Alcohol or Polyfluorinated Polyethylene.
Eye Protection:	Chemical goggles and/or face shield should be worn where splashing is possible. Contact lenses should not be worn.
Other Protective Equipment:	Impervious clothing or boots, if needed. Wash contaminated clothing before reuse.

SECTION 10 -- SPECIAL PRECAUTIONS

Dept. of Labor Storage Category: Non-flammable.
Hygienic Practices: Avoid contact with skin and avoid breathing vapors. Do not eat, drink or smoke in work areas. Wash hands prior to eating, drinking or using rest room.

Additional Precautions: Do not store where Zinc or Aluminum are used.

Empty Container Warning: "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition. They may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to supplier or disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 11 -- ADDITIONAL INFORMATION

This product contains the following toxic chemical(s) which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

TOXIC CHEMICAL	CAS #	APPROXIMATE % BY WEIGHT
Trichloroethylene	79-01-6	100.00%

SARA Title III Hazard Categories: Immediate (Acute) Health, Delayed (Chronic) Health

Common Names: Ethylene Trichloride
Trichloroethylene

California Proposition 65: The State of California has listed Trichloroethylene under Proposition 65 as a chemical known to the state to cause cancer.

TRANSPORTATION (U.S. D.O.T. land transportation in packages of 119 gallons or less)

U.S. D.O.T. Proper Shipping Name: Trichloroethylene

U.S. D.O.T. Hazard Class & Packing Group: 6.1, PG III

U.S. D.O.T. Identification Number: UN 1710

U.S. D.O.T. Hazardous Substance: Trichloroethylene RQ 100 lbs.

Refer to 49 CFR for additional information. Exceptions or exemptions may exist for smaller quantities.