

# MATERIAL SAFETY DATA SHEET

**Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200**

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## SECTION 1

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EMERGENCY TELEPHONE

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FOR INFORMATION:

(847) 541-5700

- SUNNYSIDE CORPORATION  
- CHEM TREC

Product Class: Petroleum Solvent  
Trade Name: TOLUENE (TOLUOL)

Manufacturer's Code: 821  
NPCA HMIS:

Health: 2  
Flammability: 3  
Reactivity: 0

NFPA 704:

Health: 2  
Flammability: 3  
Reactivity: 0

Product Appearance and Odor: Clear, water-white liquid; aromatic hydrocarbon 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
Toluene	108-88-3	100%	20 PPM *(SKIN, A4)		100 PPM	150 PPM	Approx. 54 MM Hg @ 25° C.

\*Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data.

## SECTION 3 -- EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:	Move victim away from exposure and into fresh air. Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.
Skin Contact:	Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.
Inhalation:	If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.
Ingestion:	Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get immediate medical attention.
Note to Physicians:	Exposure to high concentrations of this material (for example, use in enclosed spaces or in cases of deliberate abuse) may be associated with cardiac arrhythmias. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

## SECTION 4 -- PHYSICAL DATA

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

Boiling Range:	228-232° (F)	Vapor Density:	Heavier than air
Evaporation Rate:	Slower than ether	% Volatile By Volume:	100%
Weight Per Gallon:	7.25 Lbs.	VOC Content:	871g/l (7.25 Lbs/Gal)
Solubility in Water:	0.05% Wt. @ 77°F. (Calculated)		

**SECTION 5 -- FIRE AND EXPLOSION DATA**

Flammability Classification:	Flammable Liquid - Class IB.
Flash Point:	40° (F) (Tag. Closed Cup).
Autoignition Temperature:	997°F. (Approximate)
Lower Explosive Limit:	1.4% @ 77°F (Approximate)
Extinguishing Media:	Carbon dioxide, foam, dry chemical, water spray. Do not use direct water stream; it will spread fire.
Unusual Fire and Explosion Hazards:	Flammable. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.
Special Fire Fighting Procedures:	Use air-supplied rescue equipment for enclosed areas. Cool exposed containers with water.

**SECTION 6 -- HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE:	20 PPM (ACGIH - Time weighted average)
Eye Contact:	May cause irritation, discomfort, redness and swelling of the eye.
Skin Contact:	Contact may cause mild skin irritation including redness, burning, drying and cracking of the skin. Contact may result in skin absorption, but symptoms of toxicity are not anticipated by this route alone under normal conditions of use.
Inhalation:	High vapor/aerosol concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, central nervous system effects, brain damage and possibly death.
Ingestion:	Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.
Carcinogenicity:	There is inadequate data available to evaluate the risk of developing cancer from exposure to this product. Toluene is not listed as a carcinogen by NTP, IARC or OSHA.
Target Organs:	Toluene is a potential hazard to the central nervous system, kidney, liver and sense of hearing.
Developmental:	Potential hazard to the fetus.
Medical Conditions Aggravated by Exposure:	Skin disorders, respiratory (asthma-like) conditions, kidney and liver disorders. Exposure to high concentrations of this material may cause irregular heartbeats (arrhythmias). Persons with pre-existing heart disorders may be more susceptible to this effect.
Chronic Effects:	WARNING: Concentrated, prolonged or deliberate inhalation of this product may cause brain and nervous system damage. Prolonged or repeated exposure of pregnant animals to Toluene (levels greater than approximately 1500 ppm) has been reported to cause adverse fetal developmental effects.

**SECTION 7 -- REACTIVITY DATA**

Stability:	Stable
Conditions to Avoid:	Heat, sparks and flame.
Incompatibility (Materials to Avoid):	Strong oxidizing agents like liquid chlorine or concentrated oxygen, concentrated nitric or sulfuric acid, halogens, or molten sulphur.
Hazardous Decomposition Products:	Thermal decomposition may yield carbon monoxide and carbon dioxide.
Hazardous Polymerization:	Will not 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 vapors 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.

Waste disposal method: Incinerate under safe conditions; dispose of in accordance with local, state and federal regulations.

**SECTION 9 -- SAFE HANDLING AND USE INFORMATION**

Respiratory Protection:	Appropriate organic vapor canister, self-contained breathing apparatus or supplied-air hose mask, if needed.
Ventilation:	Exposure levels should be maintained below applicable exposure limits - see Section 2. This product should not be used in confined spaces, or in a manner that will allow accumulation of high vapor concentrations. However, for controlled industrial uses when this product is used in confined spaces, heated above ambient temperatures or agitated, the use of explosion proof ventilation equipment is necessary.
Protective Gloves:	Wear resistant gloves, such as nitrile rubber.
Eye Protection:	Chemical safety goggles. Eye wash and quick drench shower facilities should be available in the work area.
Other Protective Equipment:	Impervious clothing or boots, if needed.

**SECTION 10 -- SPECIAL PRECAUTIONS**

Dept. of Labor Storage Category:	Flammable Liquid - Class IB.
Hygienic Practices:	Keep away from heat, sparks and open flame. Keep containers closed when not in use. Avoid eye contact. Avoid prolonged or repeated contact with skin. Wash skin with soap and water after contact.
Additional Precautions:	Ground containers when transferring liquid to prevent static accumulation and discharge. Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lighting, and Stray Currents" (American Petroleum Institute, 1720 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101).
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
Toluene	108-88-3	100.00%
SARA Title III Hazard Categories:	Immediate (Acute) Health, Delayed (Chronic) Health, Fire.	
Common Names:	Toluol, Methyl Benzene, Phenylmethane.	
California Proposition 65:	This product contains Toluene and may contain trace amounts of Benzene, a chemical known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65.	

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

U.S. D.O.T. Proper Shipping Name:	Toluene
U.S. D.O.T. Hazard Class:	3
U.S. D.O.T. Packing Group:	PG II
U.S. D.O.T. I.D. Number:	UN 1294
U.S. D.O.T. Hazardous Substance:	Toluene RQ 1000 lbs.

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