

**FoundryGeneral® Mold Release TE --**

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**Section 1. Supplier Information**



**FoundryGeneral® c/o General Chemical Corp.**

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Brighton, MI 48116  
(248) 587-5600

**Emergency Telephone: 1-800-424-9300**

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**Section 2. Hazardous Ingredients**

<u>Hazardous Component(s)</u>	<u>CAS #</u>	<u>PEL TWA</u>	<u>PEL Ceiling</u>	<u>TLV TWA</u>	<u>TLV STEL</u>	<u>MFG Limits</u>	<u>WGT %</u>
Trichloroethylene	79-01-6	100 ppm	200 ppm	50 ppm	100 ppm	50 ppm	> 85

N/A = Not Applicable; N/E = Not Established; \* = Mists; # = Skin; ' = Respirable Dust; " = Total Dust; ^ = Vapor; \*\* = Fumes; C = Ceiling Limit

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All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substances List (DSL), or are exempt from the listing.

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**Section 3. Hazards Identification**

**Primary Routes of Entry**

Inhalation: YES  
Skin: YES  
Ingestion: YES

**Hazardous Materials Information System (HMIS) Ratings**

Health:	* 2	0 = Minimal
Fire:	0	1 = Slight
Reactivity:	0	2 = Moderate
		3 = Serious
		4 = Severe
		* = Chronic Hazard

**Signs of Symptoms of Exposure:**

**INHALATION:** Overexposure to vapor or mist may cause dizziness, loss of concentration, and irritation. With high exposure levels, effects can include central nervous system (CNS) depression (intoxication) and cardiac arrhythmia. Product vapors displace air and can cause suffocation, especially in a confined space.

**SKIN:** Prolonged or repeated contact can cause irritation, defatting and dermatitis. Absorption through intact skin is possible.

**EYES:** Irritation and possible temporary corneal clouding.

**INGESTION:** Ingestion of this product may result in vomiting. Aspiration (breathing) of vomitus into the lungs must be avoided, as even small quantities may result in aspiration pneumonitis.

**Chemical Listed as Potential Carcinogens:**

NTP: YES

IARC: YES

OSHA: NO

Target Organs: Liver, kidneys, nervous system, cardiovascular sys

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**Section 4. Emergency And First Aid Procedures**

**INHALATION:** If adverse effects such as dizziness, nausea, or irritation are noted, move person to fresh air. If not breathing, give artificial respiration. Get medical attention!

**SKIN:** Immediately wash skin with large amounts of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

**EYES:** Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.

**INGESTION:** DO NOT INDUCE VOMITING! Call a physician immediately! NOTE TO

**PHYSICIAN:** Adrenalin should never be given to persons overexposed to chlorinated solvents.

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**Section 5. Fire Fighting Measures**

Flash Point: None.

Method Used: Tagliabue Closed Cup

Flammable Limits in Air % by Volume: LEL: 8.0

UEL: 10.5 ; for trichloroethylene.

Extinguisher Media: Foam, dry chemical, or carbon dioxide.

Special Fire Fighting Procedures: Firefighters should wear a self-contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode, and protective clothing.

Unusual Fire And Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited at locations distant from handling point.

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**Section 6. Accidental Release Measures**

If material is spilled, evacuate the area, ventilate, and avoid breathing vapors. Dike area to contain spill. Clean up area by mopping or with absorbent material and place in closed containers for disposal. Avoid contamination of ground and surface waters. Do not flush to sewer. If spill occurs indoors, turn off air conditioning and/or heating systems, to prevent vapors from contaminating entire building.

CERCLA (Superfund) Reportable Quantity (in lbs Trichloroethylene (100 lb. RQ) - Product  
RQ: 107.3 lbs. (8.9 gallons)

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**Section 7. Handling and Storage**

Handling: Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation.

Storage: Store in a dry location at room temperature. Keep container closed and maintain all original markings and labels. Prevent water or moist air from entering storage containers. Do not use aluminum or galvanized steel for storage, pumping or transfer.

Other: CAUTION! Do not use cutting or welding torches on containers, even when empty. Containers, even those that have been emptied, will retain product residue and vapors. Do not reuse container without recycling or reconditioning. Handle empty containers as if they were full.

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**Section 8. Exposure Controls and Personal Protection**

Respiratory Protection: Where vapor concentration exceeds or is likely to exceed the recommended exposure limit, an approved organic vapor type respirator is acceptable. A NIOSH/MSHA approved self-contained breathing apparatus or air line respirator with full face piece, is required for vapor concentrations above 1,000 ppm and for spills and/or emergencies.

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Local Exhaust:	Do not use in closed or confined spaces. Open doors and/or windows. Use ventilation to maintain exposure levels below exposure limits.
Mechanical Exhaust:	Mechanical ventilation should be sufficient to maintain exposure levels below exposure limits.
Protective Gloves:	Solvent-resistant gloves such as Viton, polyvinyl alcohol, or equivalent.
Eye Protection:	Safety glasses with side shields. Do NOT wear contact lenses. Chemical goggles and/or faceshield should be worn where splashing is possible.
Other Protection:	Eye wash and safety shower should be readily available. Wear a chemical resistant apron and boots where splashing is possible.
Hygienic Practices:	Protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer. Do not eat, drink, or smoke while using this product. Wash hands prior to eating, drinking, smoking, or using restrooms. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work shift.

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**Section 9. Physical and Chemical Properties**

Boiling Point:	188 °F (initial)	Degree of water solubility:
Specific Gravity (H <sub>2</sub> O=1):	1.45-1.46	Negligible = Less than 0.1%
Vapor Pressure (mm Hg):	~ 58	Slight = 0.1% - 1%
Vapor Density (air=1)	~ 4.5	Moderate = 1% - 10%
Solubility in Water:	Negligible.	Appreciable = More than 10%
Reactivity in Water:	None.	Complete = 100%
Weight per Gallon (lb/gal):	12.0 - 12.2 lbs/gal	
% Volatile by Volume:	92-94%	
% Solid by Weight:	6-8%	
Appearance and Odor:	Clear, colorless liquid with a chlorine odor.	
Theoretical VOC: (>0.1 mm Hg @ 20 ° C)	11.2 - 11.4 lbs/gal	
Analytical VOC : (EPA method 24)	11.2 - 11.4 lbs/gal	
pH:	N/A, product is solvent based.	

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**Section 10. Stability and Reactivity**

Stability:	Stable.	Hazard Polymerization:	Will not occur.
Conditions to Avoid:	Heat, sparks, or open flame!		
Incompatibility (Materials to Avoid):	Strong alkalis, oxidizers, aluminum, certain chemically active metals (i.e. barium, lithium, sodium, magnesium, titanium, or beryllium), and water.		
Hazardous Decomposition Products:	Hydrogen chloride, phosgene, chlorine, silicon oxides, and oxides of carbon.		

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**Section 11. Toxicological Information**

Trichloroethylene [CASRN 000079-01-6]

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ACUTE TOXICITY Oral LD50 (rat) = 4,920 mg/kg  
Dermal LD50 (rabbit) ~ 10 g/kg  
Inhalation LC50 (rat) = 12,500 ppm, 4 hrs

MUTAGENICITY: For epoxide-free trichloroethylene, in vitro mutagenicity studies were negative. Animal mutagenicity studies were predominantly negative. Pure trichloroethylene (without additives) lacks mutagenic potential in most tests. [3-13,19,18-031099]

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**Section 12. Ecological Information**

Trichloroethylene [CASRN 000079-01-6]

ECOTOXICITY: Based largely or completely on data for major component(s). Material is moderately toxic to aquatic organisms on an acute basis (LC50 between 1 and 10 mg/L in most sensitive species).  
MOVEMENT & PARTITIONING: Bioconcentration potential is low (BCF less than 100 or Log Pow less than 3). Potential for mobility in soil is high (Koc between 50 and 150).  
DEGRADATION & PERSISTENCE: Biodegradation may occur under both aerobic and anaerobic conditions (in either the presence or absence of oxygen). [3-13,19,18-031099]

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**Section 13. Disposal Considerations**

Waste Disposal Methods (Federal, State, Local):

In accordance with all federal, state and local requirements.

RCRA Hazardous Waste Number: D040, U228, F002

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**Section 14. Transport Information**

Hazardous Material Description:

(Proper shipping name, hazard class, hazard ID#, packing group)

Domestic ground non-bulk: RQ UN1710, TRICHLOROETHYLENE MIXTURE, 6.1, PG III

Domestic ground bulk: RQ UN1710, TRICHLOROETHYLENE MIXTURE, 6.1, PG III

International: UN1710, TRICHLOROETHYLENE MIXTURE, 6.1, PG III

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**Section 15. Regulatory Information**

SARA 313 Information

This product contains the following chemical(s) above deminis concentrations and may be subject to reporting under section 313:

Trichloroethylene, CAS# 79-01-6, > 85 %

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**Section 16. Other Information**

This MSDS contains revisions in the following sections: New product

Prepared by: General Chemical

Revised by:

The development of this Material Safety Data Sheet (MSDS) relies upon information provided to us by each of our raw material suppliers. This MSDS will be updated as changes occur to their MSDS(s).

We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damage, direct or indirect, as a result of their use.