

# SAFETY DATA SHEET



**Date Issued :** 4/3/2013  
**MSDS No :** 4322  
**Date-Revised :** 4/5/2013  
**Revision No :** 1

## GENTECH GENERAL CLEANING SOLVENT

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** GENTECH GENERAL CLEANING SOLVENT

**PRODUCT CODE:** 4322, GT1185

**MANUFACTURER**

Tarr Acquisition, LLC  
 4115 W. Turney Ave.  
 Phoenix, AZ 85019  
**Service Number:** 602-233-2000

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**CHEMTREC (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666

### 2. HAZARDS IDENTIFICATION

**GHS LABEL**

**PRECAUTIONARY STATEMENT(S)**

**Prevention:**

P102: Keep out of reach of children.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Causes eye irritation.

**SKIN:** Prolonged exposure may cause skin irritation or rash.

**INGESTION:** Low order of toxicity. May cause mild nausea and abdominal discomfort.

**INHALATION:** Breathing incidental amounts of vapor mist during normal handling is not likely to cause harmful effects. Breathing large amounts of vapor mist may be harmful.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS	EINECS
1-BROMOPROPANE	> 90	106-94-5	203-445-0
1,2-EPOXYBUTANE	< 2	106-88-7	203-438-2
Proprietary Components - Trade Secret	< 8		

**COMMENTS:** 1,2 Epoxybutane is a synonym for 1, 2 Butylene Oxide.

### 4. FIRST AID MEASURES

**EYES:** Flush eyes with water for at least 15 minutes. Seek medical attention if irritation develops or persists.

**SKIN:** Remove contaminated clothing. Wash affected areas with soap and water. See a physician if irritation

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develops.

**INGESTION:** DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

**INHALATION:** Remove from exposure to fresh air. If not breathing or if breathing is difficult, oxygen should be administered by qualified personnel. Consult doctor.

## 5. FIRE FIGHTING MEASURES

### FLASHPOINT AND METHOD:

NONE by ASTM D-56 TC

NONE by ASTM D-92 COC

NONE by ASTM D-93-TCC

**FLAMMABLE LIMITS:** 3.0 to 9.0

**AUTOIGNITION TEMPERATURE:** 490°C (914°F)

**EXTINGUISHING MEDIA:** Use foam, CO<sub>2</sub> (carbon dioxide), dry chemical or water fog.

**EXPLOSION HAZARDS:** In fires, toxic and corrosive gases may be released. Vapor will form a flammable mixture in a narrow concentration range of 3.0% to 9.0% by volume in air.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

## 7. HANDLING AND STORAGE

**STORAGE:** Store in a cool, dry, ventilated area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
1-BROMOPROPANE	TWA	[1]	[1]	10 [1]	[1]	100	
1,2-EPOXYBUTANE	TWA	[1]	[1]	[1]	[1]		
<b>OSHA TABLE COMMENTS:</b>							
1. Not established.							

**ENGINEERING CONTROLS:** Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

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## PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Chemical goggles/face shield.

**SKIN:** Use of gloves is recommended. Viton or Silvershield gloves offer the best extended protection. Nitrile, neoprene, or butyl gloves offer less protection and should be used for splash protection only. DO NOT use natural rubber gloves when handling this product.

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**WORK HYGIENIC PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**VAPOR PRESSURE:** 139 mm Hg at 25°C

**VAPOR DENSITY:** 4.3 (Air=1)

**BOILING POINT:** (160°F) 760 mm Hg

### FLASHPOINT AND METHOD:

NONE by ASTM D-56 TC

NONE by ASTM D-92 COC

NONE by ASTM D-93-TCC

**SOLUBILITY IN WATER:** Negligible in water.

**EVAPORATION RATE:** 4.5 (n-Butyl Acetate=1)

**SPECIFIC GRAVITY:** 1.30 to 1.34

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Avoid heat, sparks, flame and contact with strong oxidizing agents. Surfaces that are sufficiently hot may ignite even liquid product in the absence of sparks or flame. Prolonged contact with free water may result in diminished stabilizer and corrosion.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may yield carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

#### INHALATION LC<sub>50</sub>:

**n-Propyl bromide:** LC50 rat = 253,000 mg/m<sup>3</sup> in 0.5 hour

**1,2 Butylene Oxide:** LC50 rat = 6,300 mg/m<sup>3</sup> in 4 hours

**GENTECH GENERAL CLEANING SOLVENT****n-Propyl bromide**:LD50 Oral/rat = 4,260 mg/kg**1,2 Butylene Oxide**: LD50 Oral/rat = 6,300 mg/m3 in 4 hours

LD50Dermal/rabbit= 2,100 ul/kg

**CARCINOGENICITY**

Chemical Name	IARC Status
1,2-EPOXYBUTANE	2B

**REPRODUCTIVE EFFECTS:** n-Propyl. bromide: Reproductive: Male: BMDL of reduced sperm motility FO at 282 ppm rat/inhalation\*

Female: LOAEL of increased estrous cycle length at 250 ppm rat/inhalation\*

\* USEPA SNAP Proposal conclusions based on outcome of Wil(2001).

**12. ECOLOGICAL INFORMATION****COMMENTS:** The ozone depletion potential for n-propyl bromide has been determined to be in the range of 0.006 to 0.013.**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** Dispose of waste material according to local, State, Federal, and Provincial Environmental Regulations.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** NOT DOT REGULATED**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Vol. %	CAS
1,2-EPOXYBUTANE	< 2	106-88-7

**302/304 EMERGENCY PLANNING****EMERGENCY PLAN:** None**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

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Chemical Name	Vol. %	CERCLA RQ
1,2-EPOXYBUTANE	< 2	100

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
1-BROMOPROPANE	106-94-5
1,2-EPOXYBUTANE	106-88-7

**CALIFORNIA PROPOSITION 65**

Chemical Name	Vol. %	Listed
1-BROMOPROPANE	> 90	<ul style="list-style-type: none"> <li>• Developmental Toxicity</li> <li>• Female Reproductive</li> <li>• Male Reproductive</li> </ul>

**CANADA**

**DOMESTIC SUBSTANCE LIST (INVENTORY):** Listed.

**16. OTHER INFORMATION**

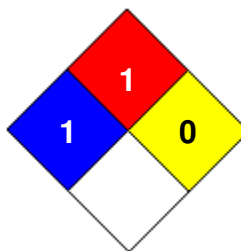
**REASON FOR ISSUE:** New product.

**PREPARED BY:** COMPLIANCE

**REVISION SUMMARY:** This MSDS replaces the 4/5/2013 MSDS.

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>1</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	<b>H</b>

**NFPA CODES**

**NFPA STORAGE CLASSIFICATION:** These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

**HMIS RATINGS NOTES:** The HMIS rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in the SDS must be considered.

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