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**SECTION 1 – IDENTIFICATION**

**Chemical Name and Symbol:** N/A **Trade Name and Synonyms:** Hi-Purity Contact Cleaner & Safety Solvent  
**Chemical Family:** Halogenated Hydrocarbons **Classification:** Cleaner  
**Product No.:** CH025-EA  
**Suppliers Name:** Lonestar Maintenance Chemicals **Emergency Phone:** 1-800-721-2448  
**Address:** P.O. Box 209, Buna, TX 77612

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

Route of Entry	
Ingestion	May be harmful or fatal if swallowed
Inhalation	Excessive inhalation of vapors can cause nasal and respiratory irritation and effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.
Eye Contact	May cause irritation.
Skin Absorption	No data available for this product mixture.
Skin Contact	May cause irritation defatting, and cracking of skin.
Effects of Acute Exposure	High concentration may produce narcosis (central nervous system depression).
Effects of Chronic Exposure	None known may cause damage to the central nervous system, respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, spleen and kidneys.
Exposure Limit of Material	See section 3.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredients	%	Exposure Limit	C.A.S. #	LD/50, Route, Species	LC/50 Route, Species
n-Propyl Bromide	60 – 100	N/A	105-94-5	4250 mg/kg Oral - Rat	253,000 mg/m <sub>3</sub> /0.5 hr INHAL - Rat
n-Propanol	<200 ppm	200 mg/m <sub>3</sub>	71-23-8	1870 mg/kg Oral - Rat	Not Available
Butylene Oxide	Traces	N/A	106-88-7	N/A	N/A
Carbon Dioxide	1 - 5	5000 ppm	124-38-9	Not Applicable	Not Available

**SECTION 4 - FIRST-AID MEASURES**

**Emergency First-Aid Procedure:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention. For skin, wash thoroughly with soap and water. If affected by inhalation of vapour or spray mist, remove to fresh air. If swallowed, do NOT induce vomiting. Get medical attention.

**SECTION 5 - FIRE FIGHTING MEASURES**

<b>Auto ignition temperature (°C)</b>	490
<b>Special procedures</b>	Water from fogging nozzles may be used to cool closed containers to prevent build-up if exposed to extreme temperatures. Full protective equipment including self contained breathing apparatus should be worn in a fire involving this material.
<b>Flammability</b>	Not a flammable product (as per Canadian Aerosol Regulations)
<b>If yes, under which conditions?</b>	Excessive heat, sparks and open flame
<b>Extinguishing media</b>	Water, carbon dioxide, dry chemical foam
<b>Upper flammable limit (% by volume)</b>	7.8
<b>Lower flammable limit (% by volume)</b>	4.0
<b>Explosion Data</b>	
<b>Sensitivity to static discharge</b>	Not applicable
<b>Sensitivity to impact</b>	Not applicable
<b>Hazardous combustion products</b>	Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete.
<b>Aerosol Flame Projection</b>	
<b>Classified as</b>	0 cm
<b>Flashback</b>	None
<b>Flash point (°C), tag closed-cup (Concentrate)</b>	None

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Leak/spill:** Remove all sources of ignition. Use an inert absorbent material and non-sparking tools. Ventilate area. Prevent from entering a watercourse.

**SECTION 7 - HANDLING AND STORAGE**

**Storage needs:** Keep away from heat, sparks and open flames. **Engineering controls:** Ventilation - local (mechanical if used indoors on a continuous basis). **Handling procedures and equipment:** Store in a cool, well ventilated area not to exceed 50°C. **Synergistic materials:** None known.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Gloves - type:** Wear chemical resistant gloves. **Respiratory - type:** If used indoors on a continuous basis, use of a cartridge type respirator (NIOSH/MSHAT 23C or equivalent) is recommend. **Eye - type:** Safety glasses. **Footwear - type:** Not normally required. **Other - type:** Not required.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	Aerosol
Appearance	Colourless
Odor	Sweet
Odor Threshold	Not Available
Vapour Pressure (PSIG) - Aerosol @ 20°C	80 - 90
Boiling Point (°C) (CONC)	69
Evaporation Rate - n-Butyl Acetate = 1	Not Available
Vapour Density (Air = 1) (by weight)	Greater than 1
Solubility in Water g/L (20°C)	2.4 g/L
pH	Not Applicable
Specific Gravity (Liquid)	1.25 - 1.29
Coefficient of Water/Oil Distribution	Not Available
Freezing Point (°C)	-117
Aerosol Percent Volatile (by weight)	100
Specific Gravity (Aerosol)	1.25 - 1.29

**SECTION 10 - STABILITY AND REACTIVITY**

Hazardous products of decomposition	Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete.
Chemical stability: Yes	Under normal conditions
No, which conditions?	Not applicable
Compatibility with other substances: No, which ones?	Strong oxidizing agents
Reactivity conditions:	Not Applicable
Hazardous polymerization	Will not occur

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Reproductive effects:** No information is available and no adverse reproductive effects are anticipated. **Irritancy of material:** May cause irritation. **Sensitizing capability of material:** Unknown. **Carcinogenicity of material:** Butylene oxide: possibly carcinogenic to humans. (IARC-2B). **Teratogenicity:** No information is available and no adverse teratogenic effects are anticipated. **Mutagenicity:** No information is available and no adverse mutagenic effects are anticipated.

**SECTION 12 - ECOLOGICAL CONDITIONS**

**Environmental:** n-Propyl bromide - harmful to aquatic life at low concentrations. Environmental fate: not readily biodegradable. Low Bioaccumulation potential. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds or rivers.

**SECTION 13 - DISPOSAL CONDITIONS**

**Waste disposal:** Do not puncture or incinerate containers, even when empty. Dispose of in accordance with local, provincial and federal regulations.

**SECTION 14 - TRANSPORTATION INFORMATION**

**D.O.T. Classification:** Consumer commodity, ORM-D.

**T.D.G. Classification:** Consumer commodity (Aerosols, UN1950, Class 2.1)

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**SECTION 15 - REGULATORY INFORMATION**

<b>U.S. Regulations</b>	
HMIS Rating Health	2 moderate hazard
HMIS Rating Flammability	0 minimal hazard
HMIS Rating Reactivity	1 slight hazard
HMIS Rating Personal Protection	B
NFPA Code 30B	Level 1
SARA 313 Information	This product contains the following substances 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: CAS #: Chemical Name: *106-88-7 Butylene Oxide.
California Proposition 65	The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: Warning: This product does not intentionally contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. CAS #: Chemical Name: N/A
TSCA (Toxic Substances Control Act)	All components of this product are listed on the TSCA Inventory, any impurities present in this product are exempt from listing.
VOC (w/w%)	>95
<b>Canadian Regulations</b>	
WHMIS Classification	A, D2B
CNFC Section 3.3.5	Level 1
CEPA (Canadian Environmental Protection Act)	Substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

**SECTION 16 - OTHER INFORMATION**

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the user. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state or local laws, rules, regulations or ordinances.