

M A T E R I A L   S A F E T Y   D A T A   S H E E T

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** HT 18025 GLASS CLEANER - AMMONIA FORTIFIED  
**PRODUCT USE/CLASS:** GLASS CLEANER

HMIS CODES

Health - 2            Flammability - 0            Reactivity - 0

SUPPLIER/DISTRIBUTOR:

HI-TECH INDUSTRIES  
 19270 W. 8 MILE ROAD  
 SOUTHFIELD, MI 48075  
 INFORMATION: 248 358-5533  
 M-F 8:00 A.M. - 5:00 P.M.  
 FAX: 248 358-0110

EMERGENCY TELEPHONE: 800 535-5053  
 24 HOURS

**DATE PREPARED:** 05-09-2012

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>% by WT</u>	<u>CAS No.</u>	<u>INGREDIENT</u>	<u>UNITS</u>	<u>VAPOR PRESSURE</u>
2	74-98-6	Propane		
		ACGIH TLV	2500 ppm	760 mm
		OSHA PEL	1000 ppm	
3	106-97-8	Butane		
		ACGIH TLV	800 ppm	760 mm
		OSHA PEL	800 ppm	
5	111-76-2	2-Butoxyethanol		
		ACGIH TLV	20 ppm	88 mm
		OSHA PEL	25 ppm	

SECTION 3 - HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
 EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.  
 SKIN: Prolonged or repeated exposure may cause irritation.  
 INHALATION: Irritation of the upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None generally recognized.

CANCER INFORMATION: For complete discussion of toxicology data refer to Section 11.

#### SECTION 4 - FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

#### SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200 F PMCC      LOWER EXPLOSIVE LIMIT: N.A.  
UPPER EXPLOSIVE LIMIT: N.A.

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIREFIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

#### SECTION 7 - HANDLING AND STORAGE

STORAGE CATEGORY: Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

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

PRECAUTIONS TO BE TAKEN IN USE: Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

VENTILATION: Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION: If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

PROTECTIVE GLOVES: None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION: Wear safety spectacles with unperforated sideshields.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT: 7.94 lb/gal 951 g/l  
SPECIFIC GRAVITY: 0.96  
BOILING POINT: <0 - 343 F <-18 - 172 C  
MELTING POINT: Not Available  
VOLATILE VOLUME 99 %  
EVAPORATION RATE Faster than ether  
VAPOR DENSITY: Heavier than air  
SOLUBILITY IN WATER: N.A.  
pH: 9.0  
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical): Volatile Weight 9.90 %  
Less Water and Federally Exempt Solvents

## SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable  
CONDITIONS TO AVOID: None known.  
INCOMPATIBILITY: None known.  
HAZARDOUS DECOMPOSITION PRODUCTS: By fire: Carbon Dioxide, Carbon Monoxide  
HAZARDOUS POLYMERIZATION: Will not occur

## SECTION 11 - TOXICOLOGICAL PROPERTIES

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

### TOXICOLOGY DATA

<u>CAS No.</u>	<u>Ingredient Name</u>	<u>LC50 RAT 4HR</u>	<u>LD50 RAT</u>
74-98-6	Propane	Not Available	Not Available
106-97-8	Butane	Not Available	Not Available
111-76-2	2-Butoxyethanol	Not Available	470 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 - TRANSPORTATION INFORMATION

No data available.

SECTION 15 - REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

<u>CAS No.</u>	<u>CHEMICAL/COMPOUND</u>	<u>% by WT</u>	<u>% Element</u>
	Glycol Ethers	5	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 - OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

<END OF MSDS>