

# MATERIAL SAFETY DATA SHEET

Information in accordance with 29 CFR 1910.1200 (g)(1)

DATE OF ISSUE: 01/01/2002 SUPERSEDES: MSDS NBR: Glasshardener

## SECTION I - GENERAL INFORMATION

**MANUFACTURER'S NAME:** VISPROX B.V.  
**ADDRESS:** GRIJPENSTEINWEG 19  
HAARLEM 2014 KX, HOLLAND  
**EMERGENCY TELEPHONE:** CHEMTREC (800-424-9300 within US)  
Outside US (703-527-3887)  
**INFORMATION TELEPHONE:** 011-31-23-524-81-31  
**PRODUCT CLASS:** Hardener for pad printing inks  
**TRADE NAME:** Glasshardener  
**MANUFACTURER'S CODE:** TCI 8700 Glasshardener

### HMIS INFO:

HEALTH: 1  
FLAMMABILITY: 2  
REACTIVITY: 0  
PERSONAL PROTECTION:

### Responsible for distribution

Printex Marking Technologies  
12113 Kirkham Rd  
Poway, CA 92064  
Tel 800.982.1928

## SECTION II - HAZARDOUS INGREDIENTS

This product contains the following toxic chemicals (if any are present they are marked "YES" under the SARA 313 column below) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for this material.

INGREDIENTS	CAS Number	%	SARA 313 Listed	MFR's TLV	OSHA PEL		ACGIH TLV's			Vapor Press. mm Hg
					ppm	mg/m <sup>3</sup>	TWA ppm	STEL ppm	LEL	
AROMATIC NAPHTHA	64742-95-6	25-50	NO	50					1	10.3
PGME ACETATE	108-65-6	10-20	NO		N/E		N/E		1.3	3.7
ALIPHATIC POLYISOCYANATE RESIN	28182-81-2		NO							
ADHERING ADDITIVE	82985-35-1		NO							

The remaining (proprietary) ingredients are not found in the most recent Massachusetts, New Jersey, Maryland, Pennsylvania and California Substance Lists. THE FORMULA, IN ITS ENTIRETY, IS DEEMED "TRADE SECRET" BY THE COMPANY.

## SECTION III - PHYSICAL DATA

**BOILING RANGE:** 293F. **PERCENT VOLATILE BY WEIGHT:**  
**VAPOR DENSITY:** HEAVIER THAN AIR **WEIGHT PER GALLON (LBS/GAL):** 7.9  
**EVAPORATION RATE:** U/K **VOC (THEORETICAL) (LBS/GAL):** N/A

## SECTION IV - FIRE AND EXPLOSION DATA

**FLASH POINT:** 77F. SETA FLASH **U.E.L.:** 7.5% by volume **L.E.L.:** 1.1% by volume

**OSHA CLASSIFICATION:** Flammable Liquid

**DOT CLASS:** Flammable liquid, Packing Group III, UN 1263

**EXTINGUISHING MEDIA:** Alcohol resistant foam, CO2 powder, water spray / mist. Do not use water streams or jet.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Generation of electrostatic discharges during manipulation may occur.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear when fighting fire in confined spaces. If combustion has not fully taken place a formation of carbon monoxide may occur. The product floating on water can be ignited again. Vapor is heavier than air and spreads along the ground. Ignition at a distance is possible.

While Visprox believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Visprox B.V. assumes legal responsibility. Since the use of this information and these opinions and the use of the product are not within the control of Visprox B.V., it is the user's obligation to determine the conditions of safe use of the product.

N/A - Not Applicable

N/E - Not Established

U/K - Unknown

## SECTION V - HEALTH HAZARD DATA

**PRIMARY ROUTE OF ENTRY:** Inhalation.

**MEDICAL CONDITIONS WHICH MIGHT BE AGGRAVATED:** Asthma and allergies may be aggravated with prolonged use.

**OVEREXPOSURE TO VAPOR MAY CAUSE: (ACUTE)**

Irritation of skin and eyes. Headache, dizziness, nausea. Desiccation of the skin.

**REPEATED OVEREXPOSURE TO VAPOR MAY CAUSE: (CHRONIC)**

Long term exposure may cause irritation of skin, eyes, nose, pharynx, and respiratory system depending on concentration.

Prolonged use may have an irritant effect on mucous membranes- especially on breathing organs- and cause hypersensitivity reactions.

**EMERGENCY AND FIRST AID PROCEDURES:**

If inhaled, remove to fresh air. Wash skin thoroughly with soap and water. For eyes, irrigate copiously with clean fresh water for at least 15 minutes. Do not induce vomiting. If symptoms remain, seek medical advice.

## SECTION VI - REACTIVITY DATA

**STABILITY:** Stable.      **CONDITIONS TO AVOID:** High heat, sparks and open flame.

**INCOMPATIBILITY (Materials to avoid):** Keep away from oxidizing agents, strongly acidic or alkaline materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

**HAZARDOUS POLYMERIZATION:** Should not occur.

## SECTION VII - SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Exclude sources of ignition and ventilate the area. Avoid breathing vapors. Avoid contact with skin and eyes. Do not allow to enter drains or water-ways or soil. Avoid spreading and polluting drains by using sand, earth, or other barrier.

**WASTE DISPOSAL METHOD:**

Contain and collect with inert absorbent material and place in a suitable container for disposal in accordance with the federal, state, and local regulations.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

**VENTILATION:** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of good general extraction and local exhaust ventilation. Containers should be properly resealed and waste cleaning tissues collected in a special container which should be closed immediately and disposed of in accordance with local regulations.

**RESPIRATORY PROTECTION:**

IN OPEN AREAS: Provide adequate ventilation.

IN RESTRICTED VENTILATION AREAS: Do not use unless well ventilated.

**PROTECTIVE GLOVES:** Use gloves and barrier cream.

**EYE PROTECTION:** Use protection goggles.

**OTHER PROTECTIVE MEASURES:** Keep away from food and drinks. Wash hands before each use. When using do not eat, drink or smoke.

## SECTION IX - SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

**WARNING! FLAMMABLE**

**HARMFUL IF INHALED**

**AVOID PROLONGED BREATHING OF VAPOR OR CONTACT WITH SKIN**

**LIQUID MAY CAUSE EYE AND SKIN IRRITATION**

**KEEP CONTAINER CLOSED**

**FOR INDUSTRIAL USE ONLY**

**KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME**

**USE ONLY WITH ADEQUATE VENTILATION**

**WASH HANDS THOROUGHLY AFTER USING**

**OBSERVE ALL LABEL INSTRUCTIONS**

**KEEP OUT OF THE REACH OF CHILDREN**

**DO NOT USE UNTIL MANUFACTURER'S SAFETY PRECAUTIONS**

**HAVE BEEN READ AND UNDERSTOOD.**