

# MATERIAL SAFETY DATA SHEET

PAGE 1

PRODUCT CODE: PRO-6001A

PRODUCT NAME: SEALER HARDENER

=====SECTION I - MANUFACTURER IDENTIFICATION=====

MANUFACTURER'S NAME: *TCI PRODUCTS COMPANY*

ADDRESS : *419 East DeSoto Ave.  
SAINT LOUIS, MO 63147*

INFORMATION PHONE : *314-231-3075*

EMERGENCY PHONE : *800-424-9300*

=====SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION=====

EXPORTABLE COMPONENTS	CAS #	VAPOR PRESSURE mm Hg @ TEMP		WEIGHT PERCENT
ALIPHATIC POLYISOCYANATE RESIN OSHA PEL: N/E ACGIH TLV: N/E	28182-81-2	n/a	n/a	<45
ACETONE OSHA PEL: 750 ppm ACGIH TLV: 1780 Mg/M <sup>3</sup>	67-64-1	181.7	68F	10-55
n-BUTYL ACETATE OSHA PEL: 150 ppm ACGIH TLV: 710 Mg/M <sup>3</sup>	123-86-4	10	68F	15-20
TOLUENE OSHA PEL: 100 ppm ACGIH TLV: 377 Mg/M <sup>3</sup>	108-88-3	36	86F	30-35
HEXAMETHYLENE DIISOCYANATE OSHA PEL: N/E ACGIH TLV: N/E	822-06-0	n/a	n/a	<0.5

The chemicals listed above are subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

=====SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS=====

BOILING RANGE: 133°F – 282°F  
VAPOR DENSITY: HEAVIER THAN AIR  
%VOLATILES (VOLUME): 66.5%  
VOC AS PACKAGED: 4.0 Lb/Gal  
APPEARANCE AND ODOR: CLEAR, OF SOLVENT

SPECIFIC GRAVITY (H<sub>2</sub>O=1 g/L): 0.94  
WEIGHT/GAL.: 7.82 Lb/Gal  
%SOLIDS (WT): 41.6%  
SOLUBILITY IN WATER: NEGL.  
EVAPORATION RATE: N/A

## =====SECTION IV - FIRE AND EXPLOSION HAZARD DATA=====

**FLASH POINT:** 25°C**METHOD USED:** TCC**FLAMMABLE LIMITS IN AIR BY VOLUME – LOWER:** 1.2**UPPER:** 12.8**EXTINGUISHING MEDIA:** FOAM, CO<sub>2</sub>, DRY CHEMICAL**SPECIAL FIREFIGHTING PROCEDURES:** A SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN. WATER SHOULD NOT BE USED EXCEPT AS A FOG TO KEEP NEARBY CONTAINERS COOL.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** THIS MATERIAL CAN BE IGNITED UNDER ALMOST ALL AMBIENT TEMPERATURE CONDITIONS.

## =====SECTION V - REACTIVITY DATA=====

**STABILITY:** STABLE**CONDITIONS TO AVOID:** HEAT, SPARKS, OPEN FLAME, STATIC DISCHARGE**INCOMPATIBILITY (MATERIALS TO AVOID):** STRONG, OXIDIZING AGENTS**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** CARBON MONOXIDE AND/OR CARBON MONOXIDE**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

## =====SECTION VI - HEALTH HAZARD DATA=====

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** MAY CAUSE DIZZINESS AND/OR HEADACHES. MAY ALSO PRODUCE DROWSINESS, ANESTHETIC AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS.**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** IRRITATED EYES MAY TEAR. IRRITATED SKIN MAY BE RED AND DRY, POSSIBLE BLISTERING.**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.**HEALTH HAZARDS (ACUTE AND CHRONIC):** INHALATION-DIZZINESS, BREATHING DIFFICULTY, HEADACHES, AND LOSS OF COORDINATION. EYE CONTACT- SEVERE IRRITATION, TEARING, REDNESS, AND BLURRED VISION. SKIN CONTACT- CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION, AND DERMATITIS. INGESTION- CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.**CARCINOGENICITY:** NTP CARCINOGEN: NO **IARC MONOGRAPHS:** NO **OSHA REGULATED:** NO**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** NOTICE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVER-EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.**EMERGENCY FIRST AID PROCEDURES:** INHALATION OVER EXPOSURE- MOVE PERSON TO FRESH AIR. IF BREATHING STOPS, APPLY ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.

EYE CONTACT- FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES.

SKIN CONTACT- WASH THOROUGHLY WITH SOAP AND WATER AND SEE A DOCTOR.

INGESTION- DO NOT INDUCE VOMITING, CAN CAUSE CHEMICAL PNEUMONITIS AND PULMONARU EDEMA. CONTACT PHYSICIAN IMMEDIATELY.

=====SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE=====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** VENTILATE SPILL AREA. ELIMINATE ALL SOURCES OF IGNITION. CONFINE SPILL AS QUICKLY AS POSSIBLE. ABSORB WITH OIL ABSORBING COMPOUND, AND SCOOP UP FOR DISPOSAL.

**WASTE DISPOSAL METHOD:** TO MEET FEDERAL, STATE, OR LOCAL ENVIRONMENTAL REGULATIONS.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT HANDLE OR STORE NEAR HEAT, SPARKS, FLAME AND/OR STRONG OXODANTS. TO REDUCE FIRE OR EXPLOSION RISK FROM STATIC ACCUMULATION DISCHARGE, EFFECTIVELY GROUND PRODUCT TRANSFER SYSTEM IN ACCORDANCE WITH NFPA STANDARD FOR PETROLEUM PRODUCTS.

**OTHER PRECAUTIONS:** N/A

=====SECTION VIII - CONTROL MEASURES=====

**RESPIRATORY PROTECTION:** A POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR IS MANDATORY. OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE (29 CFR 1910.134).

**VENTILATION:** TO MEET FEDERAL, STATE, OR LOCAL ENVIRONMENTAL REGULATIONS. LOCAL EXHAUST: OVER 60 FPM RECOMMENDED.

**PROTECTIVE GLOVES:** NEOPRENE, COMPLIANCE: CFR-170-179

**EYE PROTECTION:** SAFETY GLASSES, COMPLIANCE: ANSI Z87.1-1989, CSA Z94.3-M88

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** LEATHER BOOTS, COMPLIANCE: ANSI Z41 PT 91 MI/75 C/75

**WORK/HYGIENIC PRACTICES:** AVOID PROLONGED OR REPEATED CONTACT IN ANY FORM. THOROUGHLY CLEAN, DRY, AND/OR WASH ANY CONTAMINATED WORKING APPAREL BEFORE REUSE. CLEANSE ANY CONTACTED SKIN AREAS THOROUGHLY AT THE END OF EACH WORK PERIOD, ALSO BEFORE BREAKS AND MEALS. USE NECESSARY PROTECTIVE EQUIPMENT AND MAINTAIN UPKEEP FOR EFFECTIVENESS.

=====SECTION IX - DISCLAIMER=====

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES. TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE AND OBTAINED FROM SOURCES BELIEVED BY TCI PRODUCTS COMPANY TO BE ACCURATE.