

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS
 (Approved by U.S. Department of Labor 'Essentially Similar' to form OSHA-20)

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Section I -- PRODUCT IDENTIFICATION

PRODUCT NUMBER
 V6 V 241
PRODUCT NAME
 POLASOL® Hardener
PRODUCT CLASS
 Crosslinking Urethane Additive

* -- Trade Mark

Section II -- HAZARDOUS INGREDIENTS

CAS NO.	INGREDIENT	PERCENT	TLV-PPM	TLV-MG/M3	LEL	V.P.
100-41-4	Ethylbenzene	CS	100	435	1.0	7.1
1330-20-7	Xylene	20	100	435	1.0	5.9
123-86-4	n-Butyl Acetate	10	150	710	1.3	10.0
	Hexamethylene Di-Isocyanate Polymer	63				
	Free Isocyanate monomer	CL3	Supplier suggests exposure limit of 0.02 ppm, the TLV for Toluene Di-Isocyanate			

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether
BOILING RANGE (F) 155 - 292
FLASH POINT 82 F PHCC
VAPOR DENSITY -- Heavier than Air
RELATIVE VOLUME 41.9
WT/GAL 8.63

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT 82 F PHCC LEL 1.0
RED LABEL -- Flammable, Flash below 100 F
EXTINGUISHING MEDIA
 Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
 Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING 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.

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Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II
EFFECTS OF OVEREXPOSURE

ACUTE: In a confined area vapors in high concentration are anesthetic. Overexposure may result in lightheadedness and staggering gait.
CHRONIC: Irritant to skin. May cause lung irritation and allergic reaction. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. May cause lung irritation and allergic respiratory reaction.

EMERGENCY AND FIRST AID PROCEDURES

IF INHALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.
IF ON SKIN: Wash affected area thoroughly with soap and water.
 Remove contaminated clothing and launder before re-use.
IF IN EYES: Flush eyes with large amounts of water for 15 minutes.
 Get medical attention.

Section VI -- REACTIVITY DATA

STABILITY -- Stable

INCOMPATIBILITY

Contamination with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, possibility of

Hydrogen Cyanide

HAZARDOUS POLYMERIZATION -- Will Not Occur

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area. All personnel in the area should be protected as in Section VIII. Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

WASTE DISPOSAL METHOD

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE

NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCTANATES. Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

Protect against dust which may be generated by sanding or abrading the dried film.

VENTILATION

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

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RESPIRATORY PROTECTION

Where overspray is present, a positive air supplied respirator (TC19C HDSH/MSHA) is recommended. If unavailable, wear a vapor/particulate respirator which respirator manufacturer recommends as effective for isocyanate vapor or mist. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATORY PROTECTION RECOMMENDED FOR THE PAINTERS.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION

Wear safety spectacles with unperforated side shields.

Section IX -- PRECAUTIONS

DOL STORAGE CATEGORY -- 1C

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved bonding and grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS

This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (see ACHR TLV List, Preface and Appendix D), which may be present at hazardous levels only during sanding or abrading of the dried film.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

