

MATERIAL SAFETY DATA SHEET

FLEXANE 80 LIQUID CURING AGENT

Index STOCK NO. 15800

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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATINGS:

HEALTH: 1*
FLAMMABILITY: 1
REACTIVITY: 1
030:

REVISED: December 14, 1989

SECTION 1. PRODUCT IDENTITY

TRADENAME: FLEXANE 80 LIQUID CURING AGENT
CHEMICAL FAMILY: Polyamine solution

OTHER PRODUCT INFORMATION: This information applies to the hardener component of the two-part kit. After proper mixing and curing, Flexane 80 Liquid is not hazardous.

SECTION 2. HAZARDOUS INGREDIENTS

<u>INGREDIENT(S)</u>	<u>WEIGHT PCT.</u>	<u>CAS NO.</u>	<u>TLV-TWA1,2</u>	<u>Notes</u>
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No hazardous ingredients

- "TLV" means the Threshold Limit Value exposure (8-hour time-weighted average, unless otherwise noted) established by ACGIH. "OSHA PEL" refers to the Permissible Exposure Limits for airborne contaminants as specified in 29 CFR 1900.1000.
- "N/E" indicates that neither TLV nor OSHA Permissible Exposure Limit has been established.

NOTES: A1--human carcinogen. A2--suspect carcinogen. C--ceiling limit (not a TWA). D--the TLV applies to dusts; this ingredient is not a dust as sold in our product. S--absorption through skin may be a significant route of exposure. "TC" indicates a "Toxic Chemical" subject to the reporting requirements of SARA Section 313 (40 CFR Sec. 372).

SECTION 3. PHYSICAL PROPERTIES

BOILING POINT (F): >500	VAPOR DENSITY (Air=1): >1	EVAPORATION RATE (BuAc=1): <<1
MELTING POINT (F): n/d	SPECIFIC GRAVITY: 1.08	SOLUBILITY IN WATER: Nil
PERCENT SOLIDS BY WEIGHT: 100	APPEARANCE AND ODOR: Mobile, black liquid with mild, ammonia-like odor.	VAPOR PRESSURE (mmHg): <1 at 70 F
PH (5% by weight in water): 7-8		
VOLATILE ORGANIC COMPOUNDS (VOC): 0 lbs/gal (EPA Reference Method 24)		NOTE: "n/d" = "not determined"

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >275 F; METHOD: TCC	EXPLOSIVE LIMITS IN AIR: Lower--n/d; Upper--n/d			
EXTINGUISHING MEDIA: Water yes	CO2 yes	Dry chemical yes	Foam yes	Alcohol foam

SPECIAL FIREFIGHTING PROCEDURES: Avoid breathing fumes. In fires where large amounts of this product are stored, firefighters should wear full protective gear and self-contained breathing apparatus
UNUSUAL FIRE AND EXPLOSION HAZARDS: Water or foam may cause frothing.

SECTION 5. HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES--

EYES: Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Get medical attention.
SKIN: Remove contaminated clothing and shoes. Wash thoroughly with soap and warm water. Consult a physician if irritation develops.
INHALATION: Unlikely unless material is heated. Remove patient to fresh air; consult a physician.
INGESTION: If patient is conscious, dilute with at least two glasses of water and induce vomiting. Get immediate medical attention.

SECTION 5. HEALTH HAZARD DATA (cont'd)

TOXICITY DATA--Oral LD50 (rat): >500 mg/kg
 Dermal LD50 (rabbit): >1000 mg/kg
 Inhalation LC50 (rat): No data; Exposure time: hours

SYMPTOMS OF ACUTE OVEREXPOSURE--

EYES: Animal tests have found the hardener not a primary eye irritant.
 SKIN: No irritation found in animal tests.
 INHALATION: No data
 INGESTION: Oral toxicity is not severe. No data were found on specific symptoms.

EFFECTS OF CHRONIC OVEREXPOSURE: Rare instances of sensitization to the polyamine curing agent have been reported. In such cases it would be expected that after prolonged or severe overexposure by skin contact, further contact might cause itching, swelling, or rashes.

MEDICAL CONDITIONS WHICH EXPOSURE MAY AGGRAVATE: None reported.

CARCINOGENICITY--OSHA regulated? no ACGIH? no
 National Toxicology Program? no International Agency for Research on Cancer? no
 Ingredient(s) listed: None

SECTION 6. REACTIVITY DATA

STABILITY: Chemically stable
 Conditions to avoid: Extreme heat and open flame.
 Materials to avoid: Strong acids and oxidizers.
 Hazardous decomposition products: Oxides of carbon and nitrogen; aldehydes & nitro compounds from incomplete combustion.

HAZARDOUS POLYMERIZATION: will not occur.
 Conditions to avoid: None.

SECTION 7. SPILL OR LEAK PROCEDURES

SPILL CONTROL: Avoid contamination of soil, waters, and sewers. Absorb on inert material and transfer to impermeable containers for disposal. Clean residue from spill area with strong detergent and water.

WASTE DISPOSAL: Discard as non-hazardous waste in accordance with applicable federal, state, and local regulation.

Applicable CERCLA/RCRA Hazardous Waste Codes: None
 Reportable Quantity under CERCLA, in pounds: ---

SECTION 8. PROTECTIVE EQUIPMENT

EYES: Safety glasses with side shields, or splashproof goggles.
 SKIN: Chemical resistant rubber gloves (neoprene or nitrile) and other protective gear as required to prevent skin contact.
 RESPIRATORY: None required with adequate ventilation. If the material is heated, wear NIOSH-approved organic vapor respirator.
 VENTILATION: Local exhaust is recommended where the material is heated. General mechanical ventilation is adequate for normal use.

SECTION 9. PRECAUTIONS FOR STORAGE, HANDLING, ETC.

---Store well closed in a cool, ventilated area away from ignition sources.
 ---Avoid contact of this material with skin and eyes.
 ---Use only in accordance with directions.
 ---Do not contaminate soil, waters or sewers with unmixed hardener.

PROPER SHIPPING NAME: Not regulated
 D.O.T. HAZARD CLASS: None

ITW Devcon Corporation bases the information and recommendations in this document on data believed to be correct. No warranty of any kind, however, is made as to the information in this document.