

# Material Safety Data Sheet

DATE OF PREPARATION: 3/31/2009

## HMIS Ratings:

HEALTH: 3  
FLAMMABILITY: 1  
REACTIVITY: 1  
PROTECTION: J

## SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: X-LINK  
ITEM NUMBER: 32003  
SIZE: 12.7 FL. OZ.  
PRODUCT DESCRIPTION: POLYFUNCTIONAL AZIRIDINE CROSSLINKER

## SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	% WEIGHT	Occupational Exposure Limits		VAPOR PRESSURE-
			ACGIH-TLV	OSHA-PEL	
DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE	112-15-2	50%	N/E	N/E	0.05 @ 20C
POLYFUNCTIONAL AZIRIDINE	64265-57-2	50%	N/E	N/E	N/E

## SECTION III - PHYSICAL DATA

BOILING RANGE: N/E  
% VOLATILE - WT: 50  
VAPOR DENSITY: Heavier than air  
EVAPORATION RATE: Slower than n-Butyl Acetate  
DENSITY: 8.68 LBS/GAL (1.04KG/L)  
SOLUBILITY IN WATER: Miscible

PRODUCT CHARACTERISTICS: Thick, amber liquid with rank odor

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA - Combustible Liquid Class IIIB

FLASH POINT: Over 212F (100C) PMCC

% OF VOL. OF FLAMMABLE LIMITS (Upper): N/E (Lower): N/E

EXTINGUISHING MEDIA: Water Spray, Foam, Carbon Dioxide, Dry Chemical

UNUSUAL FIRE & EXPLOSION HAZARDS: Material in itself is normally stable, but may become unstable at elevated temperatures and pressures, or may react with water with some release of energy, but not violently.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure build-up. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## SECTION V - HEALTH HAZARD DATA AND FIRST AID PROCEDURES

EYE CONTACT: Corrosive to eyes; causes eye burns. In case of contact, flush immediately with large amounts of water and obtain medical attention.

SKIN CONTACT: Prolonged or repeated contact may cause sensitization. Sensitizer for allergic persons. In case of contact, remove contaminated clothing. Wash area with soap and water. If irritation persists, consult a physician.

INHALATION: Breathing mist may cause lung damage and/or allergic reaction. If affected by inhalation, remove to fresh air. Consult a physician.

INGESTION: Harmful if swallowed. If swallowed, do NOT induce vomiting. Consult a physician immediately.

PRIMARY ROUTES OF ENTRY: Dermal, Eye Contact, Inhalation

**REGULATORY DATA:** Section 313 supplier notification: This product contains the following chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40CFR 372: Diethylene Glycol Monoethyl Ether Acetate. This product contains the following chemical(s) which are known to the state of California to cause cancer or to cause birth defects or other reproductive harm: None.

**TOXICITY INFO:** LD50 Oral-rat: 3038 mg/kg. Skin irritation-rabbit: not a primary irritant, but severely irritating to abraded skin. Eye irritation-rabbit: positive. Corrosive effects observed, lasting beyond two weeks. Carcinogenicity: because of the positive mutagenic test and carcinogenic effects of lower molecular weight aziridine compounds, this product should be handled with due care.

#### SECTION VI - REACTIVITY DATA

**STABILITY:** Stable

**HAZARDOUS DECOMPOSITION PRODUCTS:** Usual products of combustion - eg. Carbon Monoxide, Carbon Dioxide

**HAZARDOUS POLYMERIZATION:** May Occur (if mixed with acidic materials)

**INCOMPATIBILITY (MATERIALS TO AVOID):** Acidic Materials, Anhydrides and Strong Oxidizers

#### SECTION VII - SPILL OR LEAK PROCEDURES

**IN CASE MATERIAL IS RELEASED OR SPILLED:** Before attempting clean-up, refer to hazard caution information in other sections of this sheet. Decontaminate with diluted aqueous ammonium thiosulfate. Remove with inert absorbent. Flush remaining material with water.

**WASTE DISPOSAL:** Dispose in accordance with local, state/provincial, and federal regulations. Incinerate in approved facility. Do not incinerate in closed containers. While discarded product is not a hazardous waste under RCRA Regulations (40CFR 261), untreated material should not be released to the environment.

**SHIPPING INFORMATION:** Not Classified as a DOT hazardous material.

#### SECTION VIII - SAFE HANDLING AND USE INFORMATION

**VENTILATION:** Use with adequate general and/or local ventilation to maintain exposure level below TLV. Intentional misuse by concentrating and inhaling the contents can be harmful or fatal. Delayed effects from long-term exposure: Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage.

**PROTECTIVE GLOVES:** Neoprene, Pioneer's Stanzoil or equivalent.

**EYE PROTECTION:** Use chemical splash goggles or OSHA-permitted safety glasses. Have an eyewash station available.

**OTHER PROTECTIVE EQUIPMENT:** Wear impervious clothing to avoid repeated or prolonged skin contact.

**HYGIENIC PRACTICES:** Wash hands with soap and water before eating or using rest rooms. Remove and wash contaminated clothing. Discard contaminated shoes. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposures.

#### SECTION IX - MISCELLANEOUS

Store in tightly closed, properly vented containers in a cool, dry place. Do not puncture containers or expose product to moisture. Do not store in high temperature (above 100F or 38C) environment. Keep from freezing.

**\*\*\*KEEP OUT OF THE REACH OF CHILDREN\*\*\***

**KEY CODE**

HMIS = Hazardous Materials Information System

0 = Minimal Hazard  
1 = Slight Hazard  
2 = Moderate Hazard  
3 = Serious Hazard  
4 = Severe Hazard

A = Glasses  
B = Glasses + Gloves  
C = Glasses + Gloves + Apron  
D = Glasses + Faceshield + Gloves + Apron  
E = Glasses + Gloves + Dust Respirator

F = Glasses + Gloves + Apron + Dust Mask  
G = Glasses + Gloves + Vapor Respirator  
J = Goggles + Gloves + Vapor Respirator + Apron

N/A = Not Applicable

N/E = Not Established

ACGIH = American Conference of Governmental Industrial Hygienists

OEL= Occupational Exposure Limits

PEL = Permissible Exposure Limit = exposure limit to an airborne contaminant in a workday set by OSHA

TLV = Threshold Limit Value = Time-weighted average concentration for a normal 8-hour workday without adverse effect.

IARC = International Agency for Research on Cancer

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

The identities of ingredients are withheld as proprietary information. The information on this data sheet represents our best opinion as to the proper use and handling of this product under normal conditions, based upon information compiled from sources considered to be dependable. It is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. It is the user's responsibility to determine the suitability of this product for a specific purpose and to adopt such safety precautions as may be necessary. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

**BEFORE USING ANY PRODUCT, READ THE LABEL.**