

\_ M A T E R I A L   S A F E T Y   D A T A   S H E E T \_

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\_ SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \_

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PRODUCT NAME : 2X CATALYST  
IDENTIFICATION NUMBER: 4X0302  
PRODUCT USE/CLASS : Crosslinker

DATE PRINTED: 01/15/01

Basic Coatings, Inc.  
2124 Valley Drive  
P.O. Box 677  
Des Moines, IA 50303

EMERGENCY TELEPHONE: 800/424-9300  
24 Hours

PREPARER: L Morsch, PHONE: 800/247-5471, PREPARE DATE: 12/28/00

\_ SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS \_

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ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % IN RANGE
01	POLY-AZIRIDINE	64265-57-2	50 - 100 %
02	ETHYLENE GLYCOL PROPYL ETHER	2807-30-9	10 - 25 %

ITEM	EXPOSURE LIMITS				COMPANY TLV-TWA	SKIN
	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING		
01	N.E.	N.E.	N.E.	N.E.	N.E.	NO
02	100	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

\_ SECTION 3 - HAZARDS IDENTIFICATION \_

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\*\*\* EMERGENCY OVERVIEW \*\*\*: Harmful if swallowed. Causes eye burns.  
Causes skin irritation. May cause allergic respiratory reaction.  
Combustible liquid and vapor.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Corrosive. Will cause eye burns  
and permanent tissue damage.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin sensitization, an  
allergic reaction, which becomes evident on re-exposure to this material.  
Causes irritation. May aggravate pre-existing skin disorders. May be  
harmful if absorbed through the skin.

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SECTION 3 - HAZARDS IDENTIFICATION

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EFFECTS OF OVEREXPOSURE - INHALATION: Excessive inhalation of vapor may cause headache, dizziness and nausea. May aggravate pre-existing lung disorders. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Breathing mists may cause lung damage and/or allergic reaction.

EFFECTS OF OVEREXPOSURE - INGESTION: Irritating to mouth, throat and stomach.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Overexposure may cause lung damage. Reports have associated prolonged and repeated occupational overexposure to solvents with permanent brain and nervous system damage. Product was tested for potential mutagenic activity in microbial assays using the reverse mutation technique described by Ames. A dose-related increased reversion frequency over the spontaneous rate was obtained, and a value of 0.18 revertants per microgram was calculated. No components at detectable levels are listed as carcinogens by NTP, IARC or OSHA. However, because of the positive mutagenic test and carcinogenic effects of lower molecular weight aziridine compounds, this product should be handled with due care.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT SKIN ABSORPTION INHALATION EYE CONTACT

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SECTION 4 - FIRST AID MEASURES

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FIRST AID - EYE CONTACT: Flush with plenty of water for 15 minutes and call a physician.

FIRST AID - SKIN CONTACT: Wash with soap and water. Apply moisturizing skin cream.

FIRST AID - INHALATION: If overcome by vapors, remove to fresh air. Treat symptomatically and call a physician.

FIRST AID - INGESTION: Get medical attention immediately.

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SECTION 5 - FIRE FIGHTING MEASURES

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FLASH POINT: 150 F  
(PENSKY-MARTENS C.C.)

AUTOIGNITION TEMPERATURE: NA

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible Liquid. Can form explosive mixtures at temperatures at or above the flashpoint. Containers can build up pressure if exposed to heat (fire).

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SECTION 5 - FIRE FIGHTING MEASURES

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SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area. Eliminate all ignition sources. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways.

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SECTION 7 - HANDLING AND STORAGE

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HANDLING: For industry use only. Keep out of reach of children.

STORAGE: Keep away from heat, sparks and flame. Do not store above 120F. Keep containers closed and upright.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Persons who may be exposed to this material in the form of an aerosol or mist from spray operations shall wear a NIOSH-approved, organic vapor respirator equipped with high efficiency particulate filters.

SKIN PROTECTION: Impermeable gloves should be worn.

EYE PROTECTION: Wear splash goggles.

OTHER PROTECTIVE EQUIPMENT: Easily accessible eyewash station and safety shower. Clothing which covers any other exposed areas of the arms, legs, and torso.

HYGIENIC PRACTICES: Wash hands before eating or smoking. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because container may retain product residues. Avoid contact with eyes, skin, and clothing.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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BOILING RANGE : 301 - 308 F VAPOR DENSITY : Is heavier than air  
ODOR : Acrid ODOR THRESHOLD : NA  
APPEARANCE : Amber EVAPORATION RATE: Is slower than Butyl  
SOLUBILITY IN H2O : Soluble Acetate  
FREEZE POINT : NA SPECIFIC GRAVITY: 1.0416  
VAPOR PRESSURE : NA pH @ 0.0 % : NA  
PHYSICAL STATE : Liquid VISCOSITY : NA  
COEFFICIENT OF WATER/OIL DISTRIBUTION: NA

(See Section 16 for abbreviation legend)

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SECTION 10 - STABILITY AND REACTIVITY

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CONDITIONS TO AVOID: Avoid excessive heat and sources of ignition.

INCOMPATIBILITY: Strong acids, alkalies, and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce:  
carbon monoxide, carbon dioxide and oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

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SECTION 11 - TOXICOLOGICAL PROPERTIES

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No product or component toxicological information is available.

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SECTION 12 - ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: No Information.

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SECTION 13 - DISPOSAL CONSIDERATIONS

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DISPOSAL METHOD: Dispose of in accordance with federal, state and local  
regulations. WARNING: Do not incinerate closed containers.

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SECTION 14 - TRANSPORTATION INFORMATION

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DOT PROPER SHIPPING NAME: Paint Related Material

DOT TECHNICAL NAME: Not Regulated

DOT HAZARD CLASS:

HAZARD SUBCLASS:

DOT UN/NA NUMBER:

PACKING GROUP:

RESP. GUIDE PAGE:

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SECTION 14 - TRANSPORTATION INFORMATION

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SECTION 15 - REGULATORY INFORMATION

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U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD    CHRONIC HEALTH HAZARD    FIRE HAZARD    REACTION HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	MAX WT/WT %
Ethylene glycol Propyl Ether	2807-30-9	20.0 %

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME -----	CAS NUMBER
No information is available.	

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME -----	CAS NUMBER
No non-hazardous materials are among the top five ingredients.	

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----	CAS NUMBER
No non-hazardous ingredients are present at greater than 3%.	

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SECTION 15 - REGULATORY INFORMATION

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## CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME ----- CAS NUMBER

No Proposition 65 chemicals are known to be present in this product.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

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SECTION 16 - OTHER INFORMATION

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HMIS RATINGS - HEALTH: 3      FLAMMABILITY: 2      REACTIVITY: 1

PREVIOUS MSDS REVISION DATE: 12/01/99

REASON FOR REVISION:

LEGEND: NA,N/A - Not Applicable, NE,N.E. - Not Established,  
N.D. - Not Determined

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NOTICE

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The information contained herein is based on the data available to us and is believed to be correct. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Because the end-use of this product is beyond the control of this corporation, we assume no responsibility for that end-use or injury from the use of the product described herein. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

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<END OF MSDS>