

**NP 2™**

Version 1.3

07/22/02

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company : ChemRex®  
 889 Valley Park Drive  
 SHAKOPEE, MN 55379

Phone : 952-496-6000  
 Fax :  
 Emergency contact : 1-800-424-9300

Productname : NP 2™  
 MSDS : 10601

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	Mineral spirits (Stoddard type)	8052-41-3	10.0 %
02	Toluene diisocyanate mix	26471-62-5	0.1 %
03	Calcium carbonate	471-34-1	30.0 %
04	Naphtha-light aromatic	64742-95-6	5.0 %
05	Titanium dioxide	13463-67-7	5.0 %
06	1,2,4 Trimethyl Benzene	95-63-6	5.0 %
07	Silica, quartz	14808-60-7	1.0 %

ITEM	EXPOSURE LIMITS					
	ACGIH		OSHA		COMPANY	SKIN
TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA		
01	100 ppm	N.E.	525 mg/m3	N.E.	N.E.	NO
02	0.04 mg/m3	0.15 mg/m3	0.04 mg/m3	0.15 mg/m3	N.E.	NO
03	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
04	N.E.	N.E.	435 mg/m3	N.E.	N.E.	NO
05	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
06	123 mg/m3	N.E.	125 mg/m3	N.E.	N.E.	NO
07	.1 mg/m3	N.E.	.1 mg/m3	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

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SECTION 3 - HAZARDS IDENTIFICATION
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EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). May cause irritation. Repeated or prolonged contact with skin may cause sensitization.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor.

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

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called "sniffing") may be harmful or fatal. This product may contain a small amount [ <0.1% ] of toluene diisocyanate. NIOSH, NTP and IARC list toluene diisocyanate as a suspected carcinogen. Note also that prolonged repeated exposure to isocyanates can lead to skin sensitization. For persons so sensitized even brief exposures to the isocyanate can produce reddening, swelling, rash, or blisters. Similarly, prolonged and repeated exposure to isocyanates can lead to respiratory sensitization. In such individuals brief exposures to isocyanates at levels well below the TLV can produce chemical asthma, and nonspecific asthmatic conditions.

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

SECTION 4 - FIRST AID MEASURES
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FIRST AID - EYE CONTACT: Flush eye with water for 15 minutes. Get medical attention.

FIRST AID - SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If irritation persists, seek medical attention.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

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## SECTION 4 - FIRST AID MEASURES

FIRST AID - INGESTION: If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs.

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 125 F  
(PENSKY-MARTENS C.C.)

LOWER EXPLOSIVE LIMIT:	0.9 %
UPPER EXPLOSIVE LIMIT:	7.0 %

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors can travel to a source of ignition and flash back. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. Solid stream of water or foam may cause frothing. Direct stream of water into hot burning mat'l will cause splattering.

SPECIAL FIREFIGHTING PROCEDURES: Containers exposed to fire should be kept cool with water spray. Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled liquid. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Repeat sorbent/sweep cycle until the spill has dried up. Avoid runoff into storm sewers and ditches which lead to waterways.

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## SECTION 7 - HANDLING AND STORAGE

HANDLING: Use only in a well ventilated area. Keep out of reach of children. Ground and bound containers when transferring material. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

STORAGE: Keep container closed when not in use.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

OTHER PROTECTIVE EQUIPMENT: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with a face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

HYGIENIC PRACTICES: Do not take internally. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 308 - 484 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Paint thinner	ODOR THRESHOLD	: N.D.
APPEARANCE	: Smooth paste	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H2O	: Slight <0.1 %	SPECIFIC GRAVITY:	0.9129
FREEZE POINT	: N.D.	pH @ 0.0 %	: N.D.
VAPOR PRESSURE	: N.D.	VISCOSITY	: N.D.
PHYSICAL STATE	: Paste		
COEFFICIENT OF WATER/OIL DISTRIBUTION: N/D			

(See Section 16 for abbreviation legend)

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## SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Long term exposure to elevated temperatures.

INCOMPATIBILITY: Alcohols and water. Avoid contact with oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Acrid fumes. Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

## SECTION 11 - TOXICOLOGICAL PROPERTIES

PRODUCT DERMAL LD50: No Information      PRODUCT ORAL LD50: No Information  
 PRODUCT LC50: No Information

## COMPONENT TOXICOLOGICAL INFORMATION:

---- CHEMICAL NAME ----	-- DERMAL LD50 --	--- ORAL LD50 ---	---- LC50 ----
Mineral spirits (Stodda	No Information	> 5 g/kg	No Information
Toluene diisocyanate mi	>10 g/kg	4130 mg/kg	11 ppm/4H
Calcium carbonate	No Information	6450 mg/kg	No Information
Naphtha-light aromatic	>4 ml/kg	4.7 g/kg	>3670 ppm/8H
Titanium dioxide	No Information	> 7500 mg/kg	No Information
1,2,4 Trimethyl Benzene	No Information	12.7 gm/kg	18 gm/m3/4H
Silica, quartz	No Information	No Information	No Information

## SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

## SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures.

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SECTION 14 - TRANSPORTATION INFORMATION

**This material has been determined to be a non-Combustible solid by ASTM test methods.**

DOT PROPER SHIPPING NAME: Not Regulated

DOT TECHNICAL NAME: N.A.

DOT HAZARD CLASS: N.A.                      HAZARD SUBCLASS: N.A.

DOT UN/NA NUMBER: N.A.                      PACKING GROUP: N.A.                      RESP. GUIDE PAGE:

DOT PLACARD AT: N.A.

DOT CLASS NUMBER: N.A.

UN PROPER SHIPPING NAME: Not Regulated

UN HAZARD CLASS: N.A.

UN CLASS NUMBER: AIR N.A.                      MARINE N.A.

HAZARD SUBCLASS: AIR N.A.                      MARINE N.A.

UN UN/NA NUMBER: N.A.                      UN PACKING GROUP: AIR N.A.                      MARINE N.A.

UN PLACARD AT: N.A.

SECTION 15 - REGULATORY INFORMATION

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

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	WT/WT % IS LESS THAN
Toluene diisocyanate mix	26471-62-5	0.1 %
1,2,4 Trimethyl Benzene	95-63-6	5.0 %

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## SECTION 15 - REGULATORY INFORMATION

## 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
1,2 benzenedicarboxylic acid	68515-47-9

U.S. STATE REGULATIONS: AS FOLLOWS -

## 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
Acrylonitrile	107-13-1
toluene	108-88-3
Silica, quartz	14808-60-7
Toluene diisocyanate mix	26471-62-5
inorganic lead	7439-92-1
Arsenic	7440-38-2
1,1-dichloroethylene	75-35-4

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.

## SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2      FLAMMABILITY: 1      REACTIVITY: 0  
PERSONAL PROTECTION: G

PREVIOUS MSDS REVISION DATE: 03/21/00

REASON FOR REVISION: Correction in SECTION 2

VOLATILE ORGANIC COMPOUNDS (VOCS): 0.44 - 0.67 lbs/gal or 53 - 80 grams/ltr

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

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DISCLAIMER
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<END OF MSDS>