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(099935-0266 -CO171109-4033)

DATE OF ISSUE 08/27/91	SUPERSEDES 03/12/91
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SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS N/A	TRADE NAME & SYNONYMS META-LOX
CHEMICAL FAMILY METAL IMPREGNATED EPOXY	FORMULA X<-MIXTURE
MANUFACTURERS NAME: NATIONAL CHEMSEARCH DIV. OF NCH CORP.	
ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) BOX 152170 IRVING, TEXAS 75015	
PREPARED BY: RICHARD STOLLEY/T.S.CHEM.	PRODUCT CODE NUMBER 4033
EMERGENCY TELEPHONE NUMBER 214-438-1381	

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV	PEL	CAS#
PART A/DIGLYCIDYL ETHER OF				
BISPHENOL A	IRRITANT	NOT EST. 1	NOT EST. 2	1675-54-3
PART B				
DIETHYLENE TRIAMINE	CORROSIVE	1PPM 1.	1PPM 2.	111-40-0
TRIETHYLENE TETRAMINE	CORROSIVE	10 PPM 3.	10 PPM 3.	112-24-3
TETRA ETHYLENE PENTAMINE	CORROSIVE	20 PPM 3.	10 PPM 3.	112-57-2
SILICON DIOXIDE	CARC 6.	.1MG/KG 1.	10MG/KG 2.	1408-60-7

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SECTION III - PHYSICAL DATA

BOILING PT. (FAHRENHEIT)	500 (5.)	SPEC GRAVITY (H2O=1)	N/A
VAPOR PRESSURE (MM HG)	< 0.01	COLOR	DARK GRAY
VAPOR DENSITY (AIR=1)	10	ODOR	NONE
PH @ 100%	N/A	CLARITY	SOLID
PERCENT VOLATILE BY VOLUME (%)	< 2	EVAPORATION RATE (BU AC = 1)	< 0.01
SOLUBILITY IN WATER	NEGLIGIBLE		
VISCOSITY	N/A		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED) > 200 F.T.C.C.	FLAMMABLE LIMITS	LEL	UEL
		N/A	N/A
EXTINGUISHING MEDIA "ALCOHOL" X<-FOAM	DRY X<-CO2	WATER X<-SPRAY	OTHER X<-OTHER
SPECIAL FIRE FIGHTING PROCEDURES WEAR NIOSH/MSHA APPROVED RESPIRATOR WHEN FIGHTING FIRES IN CONFINED AREAS TO PROTECT FROM EXPOSURE TO ACRID SMOKE AND HAZARDOUS DECOMPOSITION PRODUCTS.			
UNUSUAL FIRE & EXPLOSION HAZARDS N/A			
NFPA HAZARD RATING (0=INSIGNIFICANT; 1=SLIGHT; 2=MODERATE; 3=HIGH; 4=EXTREME): 2 <-HEALTH 1 <-FLAMMABILITY 0 <-REACTIVITY <-SPECIAL			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :
NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.
EFFECTS OF OVEREXPOSURE
MAY CAUSE SEVERE SKIN INJURY (REDDENING & SWELLING). MAY CAUSE CHEMICAL - ACUTE - (SHORT TERM EXPOSURE)

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BURNS IN THE EYE WITH IRREVERSIBLE DAMAGE. MAY CAUSE RESPIRATORY IRRITATION. SWALLOWING CAN CAUSE NAUSEA, DIARRHEA, CRAMPING AND WEAKNESS. - CHRONIC - (LONG TERM EXPOSURE)
 PROLONGED CONTACT WITH SKIN MAY CAUSE SENSITIZATION AND ALLERGENIC RESPONSES. PROLONGED BREATHING OF VAPORS CAN LEAD TO SAME EFFECTS AS INGESTION. INHALATION OF SILICON DIOXIDE CAN CAUSE A PROGRESSIVE LUNG DISEASE KNOWN AS SILICOSIS. STUDIES INDICATE THAT PERSONS DIAGNOSED WITH SILICOSIS HAVE AN INCREASED RISK OF LUNG CANCER. 6. THIS HAZARD WOULD APPLY DURING SANDING.

PRIMARY ROUTE OF ENTRY: <-- INHALATION <-- INGESTION X<-- ABSORPTION

EMERGENCY & FIRST AID PROCEDURES

INHALATION :
 GET PERSON OUT OF CONTAMINATED AREA TO FRESH AIR. IF BREATHING HAS STOPPED, ARTIFICIAL RESPIRATION SHOULD BE STARTED. OXYGEN MAY BE ADMINISTERED, IF READILY AVAILABLE. SEEK MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:
 FLUSH WITH LARGE AMOUNTS OF WATER FOR 10 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. TREATMENT IS MOST EFFECTIVE WITHIN ONE MINUTE.

SKIN CONTACT:
 THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. APPLY EMOLLIENT RICH CREAM.

INGESTION :
 DO NOT INDUCE VOMITING. KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION. ASPIRATION OF MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

NOTES TO PHYSICIAN :
 GASTRIC LAVAGE IS INDICATED. DO NOT INDUCE VOMITING.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	X<--YES	NTP	<--YES	QSHA	<--YES	ACGIH	<--YES	OTHER	<--YES
	<--NO		X<--NO		X<--NO		X<--NO		X<--NO

DIGLYCIDYL ETHER OF BISPHENOL A
 SKN-RBT: 500MG OPEN MILD 4.
 EYE-RBT: 2MG/24H SEVERE 4.
 ORL-RAT LD50: 11GM/KG 4.

TETRAETHYLENE PENTAMINE
 ORL-RAT LD50: 3990MG/KG 4.
 SKN-RBT: 495MG OPEN SEVERE 4.

DIETHYLENE TRIAMINE
 ORL-RAT LD50: 1080MG/KG 4.
 SKN-RBT 10MG/24H SEV 4.
 SKN-RBT LD50: 1090MG/KG 4.

CRYSTALLINE SILICA
 IHL-HMN TCLO: 16MPPCF/8H/179Y-I
 TFX:PUL 4
 IHL-HMN LCLO: 300UG/M3/10Y-I 4.
 INV-DOG LDLO: 20MG/KG 4.

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TRIETHYLENE TETRAMINE
 ORL-RAT LD50: 2500MG/KG 4.
 SKN-RBT LD50: 820MG/KG 4.
 MMO-SAT (NMOL/PLATE) 4.
 IN EPIDEMIOLOGICAL STUDIES, AN EXCESS IN RESP CANCER AND NON-MALIGNANT RESP DISEASE MORTALITY OBSERVED IN WORKERS EXPOSED TO FIBROUS (NY) TALC AND EXCESS NON-MALIGNANT RESP DISEASE MORTALITY OBSERVED IN THOSE EXPOSED TO NON-FIBROUS (VERMONT) TALC. 7.

SECTION VII - REACTIVITY DATA

STABILITY	X<--STABLE	<--UNSTABLE	CONDITIONS TO AVOID
			MIXTURE OF PART A & B WILL HARDEN AND GENERATE HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID)

ACIDS AND OTHER EPOXY RESINS; STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS

ACRID SMOKE
 CARBON MONOXIDE AND OXIDES OF NITROGEN.

HAZARDOUS	WILL NOT	MAY	CONDITIONS TO AVOID
	<--OCCUR	X <--OCCUR	
POLYMERIZATION	OTHER EPOXY RESINS. REACTION OF OUR PRODUCT WILL NOT CAUSE ABOVE EFFECT.		

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 ELIMINATE ALL IGNITION SOURCES. USE ABSORBANT SUCH AS PAPER, VERMICULITE, ETC. TO CONTAIN SPILL. DO NOT FLUSH TO SEWER. PLACE INTO LABELED CONTAINERS.

WASTE DISPOSAL METHOD
 DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

NEUTRALIZING AGENT

N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

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REQUIRED VENTILATION
LOCAL EXHAUST RECOMMENDED TO KEEP AIR CONCENTRATION WELL BELOW
ESTABLISHED TLV.

RESPIRATORY PROTECTION
TYPICAL USAGE OF PRODUCT DOES NOT REQUIRE THE USE OF A RESPIRATOR.
HOWEVER, IN AN EMERGENCY SITUATION, USE A NIOSH APPROVED ORGANIC VAPOR
OR AIR-LINE RESPIRATORS. USE A SELF-CONTAINED BREATHING APPARATUS
IN CONFINED SPACES.

PROTECTIVE GLOVES
IMPERVIOUS NEOPRENE GLOVES IF REPEATED OR
PROLONGED SKIN CONTACT IS ANTICIPATED.

EYE PROTECTION
WEAR CHEMICAL GOGGLES IF METHOD OF USE
PRESENTS THE LIKELIHOOD OF EYE CONTACT.

OTHER PROTECTION
RUBBER APRON

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE | INDOOR | HEATED | REFRIGERATED | OUTDOOR
120 F. <--MAX 32 F. <--MIN | X

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
STORE AT MODERATE TEMPERATURES. AVOID CONTACT
WITH SKIN.

OTHER PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN. READ ENTIRE LABEL
BEFORE USING PRODUCT.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME | C.A.S. NUMBER | UPPER % LIMIT

N/A

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF
313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
1986 AND 40 CFR PART 372.

IF USE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT
FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE
JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS
MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND
LABELED FOR MAINTAINING MOTOR VEHICLES.

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SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

APPLICABLE REGULATIONS
<--49 CFR <--IMCC <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)

SHIPPING NAME

HAZARD CLASS | ID NUMBER | REPORT QTY

LABELS | LIMITED QTY

UNIT CONTAINER

DOT SPS CONTAINER | NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, 1990-1991, ACGIH.
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3. VENDOR'S MSDS.
4. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 7TH EDITION, N. IRVING SAX AND RICHARD J. LEWIS, SR.
5. DATA ON REACTED PRODUCT.
6. INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, MONOGRAPHS, 1987.
7. SELEVAN, BROWN; TOXICOLOGY RESEARCH PROJECTS DIRECTORY 4(3) (1979).

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