

MSDS
Material Safety Data Sheet

MANUFACTURER

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A Division of **ParexLahabra**

SECTION I – Identity

Merkrete ProEpoxy “B”- Component (Product Class: Epoxy)

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high, 4=extreme, *=chronic)

SECTION II – Ingredients/Identity Information

Hazardous Components

Component	CAS #	SARA	Vapor Pressure (mm Hg @ 20 C)	LEL (@ 25 C)
1) Aminoethyl piperazine	140-31-8	NO	@ 0 C	@ 0 C
2) TRIETHYLENE TETRAMINE	112-24-3	NO	N/A	N/A
3) BISPHENOL-A	80-05-7	NO	N/A	N/A
4) Tetraethylenepentamine	112-57-2	NO	@ 0 C	@ 0 C

None of the components of this product are recognized as carcinogenic.

OCCUPATIONAL EXPOSURE LIMITS

Component	(OSHA) PEL / TWA	PEL / CEILING	PEL / STEL	Skin
1) Aminoethyl piperazine	N/E	N/E	N/E	N/E
2) TRIETHYLENE TETRAMINE	N/E	N/E	N/E	N/E
3) BISPHENOL-A	N/E	N/E	N/E	N/E
4) Tetraethylenepentamine	N/E	N/E	N/E	Y
Component	(ACGIH) TLV / TWA	TLV / CEILING	TLV / STEL	Skin
1) Aminoethyl piperazine	N/E	N/E	N/E	N/E
2) TRIETHYLENE TETRAMINE	N/E	N/E	N/E	N/E
3) BISPHENOL-A	N/E	N/E	N/E	N/E
4) Tetraethylenepentamine	N/E	N/E	N/E	N/E

The dried film of this product may become a dust nuisance when removed by sanding or grinding. OSHA recommends a PEL/TWA of 15 mg/m³ for total dust and 5 mg/m³ for the respirable fraction. ACGIH recommends a TLV/TWA of 10 mg/m³ for total dust. (SKIN) absorption may contribute to the overall exposure to this material. Take appropriate measures to prevent skin contact.

(N/E = not established)

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SECTION III – Physical/Chemical Characteristics

boiling point: not established
evaporation rate: < 1 (ether = 1)
vapor density: > 1 (air = 1)

% volatile by volume: not applicable
% volatile by weight: not applicable
weight per gallon: 8.03 (Theoretical)

SECTION IV- Fire and Explosion Hazards

Flammability classification - OSHA : COMBUSTIBLE LIQUID - CLASS III B
- DOT : NOT REGULATED

Flash point: 400 2 degrees F. (Setaflash)

EXTINGUISHING MEDIA: USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

SECTION V - Reactivity Data

STABILITY: STABLE

CONDITIONS AND MATERIALS TO AVOID: BASED ON THE PRESENCE OF COMPONENTS 1,2, & 4 AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENTS 1,2, & 4 AVOID STRONG ACIDS. BASED ON THE PRESENCE OF COMPONENTS 1 & 2 AVOID EPOXY RESINS UNDER UNCONTROLLED CONDITIONS.
HAZARDOUS DECOMPOSITION PRODUCTS CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

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SECTION VI- Health Hazard Information

Primary Routes of Entry: Inhalation – YES

Skin – YES

Ingestion - YES

Health Hazards

EYE CONTACT

BASED ON THE PRESENCE OF COMPONENT 3 PRODUCT IS PRESUMED TO BE CORROSIVE TO THE EYES. EXPOSURE MAY CAUSE CHEMICAL BURNS AND EXTENSIVE CORNEAL INJURY.

SKIN CONTACT

BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 PRODUCT IS PRESUMED TO BE CORROSIVE TO THE SKIN AND EXPOSURE MAY CAUSE CHEMICAL BURNS. BASED ON THE PRESENCE OF COMPONENTS 2 AND 4 CONTACT WITH THE SKIN MAY RESULT IN SKIN SENSITIZATION TO AMINES, POLYAMINES, POLYAMIDES AND RELATED COMPOUNDS. INDIVIDUALS WHO HAVE DEVELOPED A SKIN SENSITIZATION CAN DEVELOP THESE SYMPTOMS AS A RESULT OF CONTACT WITH VERY SMALL AMOUNTS OF LIQUID MATERIAL OR AS A RESULT OF EXPOSURE TO VAPOR. THIS SKIN SENSITIZATION MAY BE TEMPORARY OR PERMANENT. ONCE AN INDIVIDUAL IS DIAGNOSED AS BEING SENSITIZED, NO FURTHER EXPOSURE CAN BE PERMITTED.

INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 AS A RESULT OF REPEATED OVEREXPOSURES OR EXPOSURE TO A SINGLE LARGE DOSE, CERTAIN INDIVIDUALS MAY DEVELOP LUNG SENSITIZATION (CHEMICAL ASTHMA) TO AMINES, POLYAMINES, POLYAMIDES AND RELATED COMPOUNDS WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE AT LEVELS WELL BELOW THE TLV. ONCE AN INDIVIDUAL IS DIAGNOSED AS BEING SENSITIZED, NO FURTHER EXPOSURE CAN BE PERMITTED. THIS LUNG SENSITIZATION MAY BE EITHER TEMPORARY OR PERMANENT.

INGESTION

BASED ON THE PRESENCE OF COMPONENT 2 PRODUCT IS CORROSIVE AND MAY CAUSE CHEMICAL BURNS TO THE GASTROINTESTINAL TRACT.

SIGNS AND SYMPTOMS

SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SWELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OF GASTROINTESTINAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 SKIN SENSITIZATION RESULTS IN ALLERGIC DERMATITIS WHICH MAY INCLUDE RASH, ITCHING, HIVES AND SWELLING OF EXTREMITIES. BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 LUNG SENSITIZATION RESULTS IN ASTHMA-LIKE SYMPTOMS: CHEST TIGHTNESS, SHORTNESS OF BREATH, WHEEZING AND COUGHING. THESE SYMPTOMS MAY BE IMMEDIATE OR DELAYED UP TO SEVERAL HOURS.

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AGGRAVATED MEDICAL CONDITIONS

EXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. PERSONS WITH ASTHMATIC-TYPE CONDITIONS, CHRONIC BRONCHITIS, OTHER CHRONIC RESPIRATORY DISEASES, RECURRENT SKIN ECZEMA, SENSITIZATION OR ALLERGIES SHOULD BE EXCLUDED FROM WORKING WITH AMINES, POLYAMINES, POLYAMIDES AND RELATED COMPOUNDS.

OTHER HEALTH EFFECTS

NONE RECOGNIZED.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF ANY SYMPTOMS PERSIST.

SKIN CONTACT

REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED. LEATHER GOODS SHOULD BE DISPOSED.

INHALATION

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. SEEK PROMPT MEDICAL ATTENTION.

INGESTION

DO NOT INDUCE VOMITING. VOMITING WILL CAUSE FURTHER DAMAGE TO THE THROAT. DILUTE BY GIVING WATER OR MILK TO DRINK IF THE VICTIM IS CONSCIOUS. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

SECTION VII -Precautions for Safe Handling and Use

SPILL OR LEAK PROCEDURES:

LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS SAME AS ABOVE.

SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

WASTE DISPOSAL

OBSERVE ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING PROPER DISPOSAL.

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SECTION VIII – Control Measures

RESPIRATORY PROTECTION: USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS - AT LEAST 10 AIR CHANGES PER HOUR ARE RECOMMENDED FOR GOOD GENERAL ROOM VENTILATION. IF EXPOSURE EXCEEDS THE PEL/TLV, USE THE APPROPRIATE NIOSH-APPROVED RESPIRATOR.

PROTECTIVE CLOTHING: WEAR SAFETY GLASSES, GOGGLES, OR A SPLASH SHIELD TO PREVENT EYE CONTACT. **CONTACT LENSES** SHOULD **NOT** BE WORN. WEAR PROTECTIVE GLOVES AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING.

ADDITIONAL PROTECTIVE MEASURES:

EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

ADDITIONAL PRECAUTIONS

CONTAINERS CAN CONTAIN HAZARDOUS PRODUCT RESIDUES EVEN WHEN EMPTY. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES.

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