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APOLIS, MN 55415

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TLV TWA NOT ESTAB  
TLV STEL NOT ESTAB  
OSHA PEL NOT ESTAB  
CEILING NOT ESTAB  
RECOMND NOT ESTAB

TLV TWA 3.00 MG/C  
TLV STEL NOT ESTAB  
OSHA PEL 20.00 MPPC  
CEILING NOT ESTAB  
RECOMND NOT ESTAB

TLV TWA 10.00 MG/C  
TLV STEL NOT ESTAB  
OSHA PEL 2.00 MG/C  
CEILING NOT ESTAB  
RECOMND NOT ESTAB

TLV TWA 10.00 MG/C  
TLV STEL NOT ESTAB  
OSHA PEL 2.00 MG/C  
CEILING NOT ESTAB  
RECOMND NOT ESTAB

TLV TWA 10.00 MG/C  
TLV STEL NOT ESTAB  
OSHA PEL 10.00 MG/C  
CEILING NOT ESTAB  
RECOMND NOT ESTAB

TLV TWA NOT ESTAB  
TLV STEL NOT ESTAB  
OSHA PEL NOT ESTAB  
CEILING NOT ESTAB  
RECOMND NOT ESTAB

TLV TWA NOT ESTAB  
TLV STEL NOT ESTAB

\*\*\*\*\* SECTION 2: HAZARDOUS INGREDIENTS \*\*\*\*\*CONTINUED\*

ON(NA):EPOXY RESIN	1%	TLV TWA	NOT ESTAB
		TLV STEL	NOT ESTAB
5068-38-6 CHEMICAL: PHENOL, 4,4'-(1-METHYL ETHYLIDENE)BIS-, POLYMER WITH (CHLOROMETHYL) OXIRANE		OSHA PEL	NOT ESTAB
		CEILING	NOT ESTAB
		RECOMND	NOT ESTAB
ON(NA):METHYL N-AMYL KETONE	5%	TLV TWA	50.00 PPM
		TLV STEL	NOT ESTAB
10-43-0 CHEMICAL: 2-HEPTANONE		OSHA PEL	100.00 PPM
		CEILING	NOT ESTAB
		RECOMND	NOT ESTAB

\*\*\*\*\* SECTION 3: PHYSICAL DATA \*\*\*\*\*

MPING POINT: 300 DEG F.  
VAPOR PRESSURE MM HG AT 68 DEG F: 2.0  
DENSITY (AIR = 1.0): 4.0  
RELATIVE GRAVITY: 1.56  
PERCENT VOLATILE BY VOLUME: 12.57  
EVAPORATION RATE (BUTYL ACETATE = 1): .4  
SOLUBILITY IN WATER: NO  
TASTE AND ODOR: NORMAL FOR A COATINGS PRODUCT.

\*\*\*\*\* SECTION 4: FIRE AND EXPLOSION HAZARD \*\*\*\*\*

FLASH POINT TCC/PM DEG F : 78  
EXPLOSIVE LIMIT : 1.00  
EXPLOSIVE LIMIT : 8.00

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

ADDITIONAL FIRE FIGHTING PROCEDURES:  
FIRE FIGHTERS MUST WEAR SELF CONTAINED BREATHING APPARATUS OR AIR MASKS.  
CONTAINERS EXPOSED TO FIRE SHOULD BE KEPT COOL WITH WATER SPRAY.

ADDITIONAL FIRE AND EXPLOSIVE HAZARDS:  
NONE

\*\*\*\*\* SECTION 5: HEALTH HAZARD DATA \*\*\*\*\*

PERMISSIBLE EXPOSURE LIMIT VALUE: NOT REQUIRED FOR MIXTURE.

Symptoms of OVEREXPOSURE:

IMMEDIATE EFFECTS (ACUTE):

HARMFUL IF INHALED. MAY AFFECT THE BRAIN, NERVOUS SYSTEM OR RESPIRATORY SYSTEM, CAUSING DIZZINESS, HEADACHE, NAUSEA OR RESPIRATORY IRRITATION.

OVEREXPOSURE TO INGREDIENTS IN THIS PRODUCT MAY CAUSE NOSE AND THROAT IRRITATION, EYE IRRITATION, SKIN IRRITATION, DELAYED EYE IRRITATION, DELAYED SKIN IRRITATION, RESPIRATORY TRACT IRRITATION, SKIN SENSITIZATION.

## DELAYED EFFECTS (CHRONIC):

POSSIBLE SENSITIZATION.

CONTAINS CRYSTALLINE SILICA THAT IARC HAS CONCLUDED MAY CAUSE CANCER IN ANIMALS BUT LIMITED EVIDENCE OF CANCER IN HUMANS.

PROLONGED EXPOSURE TO RESPIRABLE CRYSTALLINE QUARTZ (SILICA) MAY CAUSE DELAYED (CHRONIC) LUNG INJURY (SILICOSIS)

PROLONGED EXPOSURE OVER TLV MAY PRODUCE PNEUMOCONIOSIS

NOTICE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE - ANY RESPIRATORY OR SKIN CONDITION.

## EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION.

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER.

CLOTHING: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

SWALLOWING: IF SWALLOWED, GET MEDICAL ATTENTION IMMEDIATELY.

POSSIBLE ROUTES OF ENTRY: INHALATION, INGESTION, SKIN ABSORPTION.

## \*\*\*\*\* SECTION 6: REACTIVITY DATA

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THIS PRODUCT IS STABLE

CONDITIONS TO AVOID: NONE

COMPATIBILITY: STRONG OXIDIZERS

## HAZARDOUS DECOMPOSITION PRODUCTS:

SILICON DIOXIDE

CARBON DIOXIDE/MONOXIDE

METAL OXIDES

HAZARDOUS POLYMERIZATION: NONE

## \*\*\*\*\* SECTION 7: SPILL OR LEAK PROCEDURES

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VENTILATE AREA. AVOID BREATHING OF VAPORS. USE SELF-CONTAINED BREATHING APPARATUS OR AIRMASK FOR LARGE SPILLS IN A CONFINED AREA.

ELIMINATE IGNITION SOURCES.

REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

AVOID ALL PERSONAL CONTACT.

## WASTE DISPOSAL METHOD:

DISPOSE IN CHEMICAL DISPOSAL AREA OR IN A MANNER THAT COMPLIES WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

\*\*\*\*\* SECTION 8: SPECIAL PROTECTION INFORMATION \*\*\*\*\*

RESPIRATORY PROTECTION:

WEAR APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) BEFORE AND AFTER APPLICATION UNLESS AIR MONITORING VAPOR/MIST LEVELS ARE BELOW APPLICABLE LIMITS. FOLLOW RESPIRATOR MANUFACTURERS DIRECTIONS FOR RESPIRATOR USE.

VENTILATION:

REQUIRED FOR SPRAYING OR IN A CONFINED AREA, VENTILATION EQUIPMENT SHOULD BE EXPLOSION PROOF. ELIMINATE IGNITION SOURCES

PROTECTIVE GLOVES: NEOPRENE OR OTHER NONPOROUS.

EYE PROTECTION: USUAL EYE PROTECTION FOR APPLYING PAINT.

OTHER PROTECTIVE EQUIPMENT: NEOPRENE OR PLASTIC APRON AND PROTECTIVE CLOTHING COVERING EXPOSED SKIN AREAS.

\*\*\*\*\* SECTION 9: SPECIAL PRECAUTIONS \*\*\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

CONTAINERS SHOULD BE GROUNDED/BONDED WHEN POURING. AVOID FREE FLOWING LIQUID IN EXCESS OF A FEW INCHES.

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE ABOVE 120 DEG F. BASED ON THE PRODUCT POINT AND VAPOR PRESSURE SUITABLE STORAGE SHOULD BE PROVIDED IN ACCORDANCE WITH OSHA REGULATION 1910. 106. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE, INCLUDING FLAMABLE OR EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR CONTAINER. ALL LABEL WARNINGS MUST BE OBSERVED UNTIL THE CONTAINER HAS BEEN CLEANED OR RECONDITIONED.

ABBREVIATIONS USED:

OSHA-OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION;  
IARC-INTERNATIONAL AGENCY FOR RESEARCH ON CANCER; LEL-LOWER EXPLOSIVE LIMIT  
UEL-UPPER EXPLOSIVE LIMITS; MG CU M-MILLIGRAMS PER METERS CUBED; MM-MILLIMETER  
MPPCF-MILLIONS OF PARTICLES PER CUBIC FOOT; MSHA-MINE SAFETY AND HEALTH  
ADMINISTRATION; NA-NOT APPLICABLE; NIOSH-NATIONAL INSTITUTE OF OCCUPATIONAL  
SAFETY AND HEALTH; NOT EST-NOT ESTABLISHED; NTP-NATIONAL TOXICOLOGY PROGRAM  
Pb-LEAD; PEL-PERMISSIBLE EXPOSURE LEVEL; PPM-PARTS PER MILLION;  
TCC/PM-TAG CLOSED CUP/PENSKY-MARTEN; RECM-RECOMMENDED; TLV-THRESHOLD LIMIT VA

\*\*\*\*\* DISCLAIMER SECTION \*\*\*\*\*

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