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SECTION I

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: (703) 527-3887

mfg. code id : E199-G75 Revision level : 3-05/11/2015

trade name : #099 SOLID FILM LUBRICANT MIL-PRF-46010/SAE AS5272 TYPE III

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SECTION II

HAZARD IDENTIFICATION



Danger



Warning



Warning

HAZARD CLASSIFICATION:

EYE IRRITANT: CATEGORY 2B

CARCINOGEN: CATEGORY 2

ACUTE TOXICITY: CATEGORY 4

SKIN SENSITIZER: CATEGORY 1B

STOT SE: CATEGORY 3

STOT RE: CATEGORY 2

HAZARD STATEMENTS:

EYE CONTACT

BASED ON THE PRESENCE OF COMPONENT 4 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE CORNEAL INJURY.

SKIN CONTACT

BASED ON THE PRESENCE OF COMPONENTS 1 AND 4 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THE SKIN. BASED ON THE PRESENCE OF COMPONENT 1 ABSORPTION THROUGH THE SKIN MAY RESULT IN SYMPTOMS OF EXPOSURE AS THOSE DESCRIBED FOR INHALATION AND INGESTION. BASED ON THE PRESENCE OF COMPONENT 4 CONTACT WITH THE SKIN MAY RESULT IN SKIN SENSITIZATION.

INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENT 1 EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. BASED ON THE PRESENCE OF COMPONENT 1 EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT AND OTHER MUCOUS MEMBRANES.

INGESTION

THIS PRODUCT MAY BE IRRITATING TO THE GASTROINTESTINAL TRACT IF INGESTED. BASED ON THE PRESENCE OF COMPONENT 1 THIS PRODUCT MAY BE IRRITATING TO THE GASTROINTESTINAL TRACT IF INGESTED.

SIGNS AND SYMPTOMS

EYE, SKIN, RESPIRATORY, AND GASTRO-INTESTINAL IRRITATION AS NOTED ABOVE. BASED ON THE PRESENCE OF COMPONENT 1 CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. BASED ON THE PRESENCE OF COMPONENT 4 SKIN SENSITIZATION RESULTS IN ALLERGIC DERMATITIS WHICH MAY INCLUDE RASH, ITCHING, HIVES AND SWELLING OF EXTREMITIES.

AGGRAVATED MEDICAL CONDITIONS

PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. PREEXISTING SKIN OR LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

OTHER HEALTH EFFECTS

BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 CHRONIC OVEREXPOSURE MAY CAUSE INJURY TO THE KIDNEYS AND LIVER. BASED ON THE PRESENCE OF COMPONENT 1 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE RED BLOOD CELLS. BASED ON THE PRESENCE OF COMPONENT 2 PRODUCT IS PRESUMED TO BE POSSIBLY CARCINOGENIC, GROUP 2B. BASED ON THE PRESENCE OF COMPONENT 2 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE LUNGS. BASED ON THE PRESENCE OF COMPONENT 1 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE SPLEEN. BASED ON THE PRESENCE OF COMPONENTS 2 AND 4 "WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER." BASED ON THE PRESENCE OF COMPONENT 4 "WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

PRECAUTIONARY STATEMENTS:

USE ONLY IN A WELL-VENTILATED AREA OR IN A HOOD WHERE NO FLAME OR OTHER IGNITION SOURCES ARE PRESENT. DO NOT USE PRODUCT IN FOOD-PROCESSING OR FOOD-HANDLING EQUIPMENT OR ON SURFACES THAT MAY CONTACT FOOD. DO NOT ALLOW PRODUCT TO CONTAMINATE FOODSTUFFS. DO NOT EAT, DRINK OR SMOKE WHEN USING PRODUCT. WASH HANDS THOROUGHLY AFTER HANDLING. DO NOT BREATHE VAPORS. WEAR SUITABLE EYE AND SKIN PROTECTION. KEEP CONTAINER CLOSED WHEN NOT IN USE. PROTECT FROM TEMPERATURE EXTREMES. IN CASE OF SPILL OR LEAK, REMOVE IGNITION SOURCES AND VENTILATE AREA.

SECTION III COMPOSITION/INFORMATION ON INGREDIENTS:

no.	component	CAS#	% by wt.	SARA	vapor pressure (mm Hg @ 20 C)	LEL (@ 25 C)
1	2-PROPOXYETHANOL	2807-30-9	5 - 10	YES	1.30	1.30
2	ANTIMONY TRIOXIDE	1309-64-4	10 - 15	YES	N/A	N/A
3	MOLYBDENUM DISULFIDE	1317-33-5	15 - 20	NO	N/A	N/A
4	BISPHENOL A / EPICHLOROHYDRIN RESIN	25068-38-6	5 - 10	NO	N/A	N/A

(N/A = not applicable)

SECTION IV FIRST AID MEASURES

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. CONTAMINATED LEATHER ARTICLES CANNOT BE DECONTAMINATED AND 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. IF VOMITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

SECTION V FIRE FIGHTING MEASURES

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

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 VI

ACCIDENTAL RELEASE MEASURES

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

SECTION VII

HANDLING AND STORAGE

FLAMMABILITY

KEEP AWAY FROM SOURCES OF IGNITION: HEAT, SPARKS AND OPEN FLAME. NO SMOKING. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. KEEP CONTAINER TIGHTLY CLOSED. STORE PROTECTED FROM TEMPERATURE EXTREMES. KEEP AWAY FROM FOOD AND DRINK. SEE SECTION 10 FOR CONDITIONS TO AVOID.

SECTION VIII

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS/MIST. IF EXPOSURE EXCEEDS TLV USE A NIOSH-APPROVED POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR TO PREVENT OVER EXPOSURE.

PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR GOGGLES IF THERE IS A LIKELIHOOD OF CONTACT WITH EYES. DO NOT GET ON SKIN OR ON CLOTHING.

ADDITIONAL PROTECTIVE MEASURES

USE VENTILATION AS REQUIRED TO CONTROL VAPOR/DUST CONCENTRATIONS. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

SECTION IX

PHYSICAL PROPERTIES

% volatile by volume : 71.96 +/- 2% weight per gallon : 11.47 +/- .2
% volatile by weight : 51.59 +/- 2% VOC as supplied is .6889 pounds per gallon.

ODOR : MILD SOLVENT PHYSICAL STATE : LIQUID
pH : N/A SPECIFIC GRAVITY : 1.3001

flash point : 216 +/-2 degrees F. SETAFLASH

SECTION X

STABILITY AND REACTIVITY

STABILITY : STABLE HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

BASED ON THE PRESENCE OF COMPONENTS 1, 3 AND 4 AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENTS 2 AND 4 AVOID STRONG ACIDS. BASED ON THE PRESENCE OF COMPONENT 4 AVOID STRONG ALKALIES.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION XI TOXICOLOGICAL INFORMATION

no.	(OSHA) PEL/TWA	PEL/CEILING	PEL/STEL	skin
1	N/E	N/E	N/E	N/E
2	.5mg/m3	N/E	N/E	N/E
3	10 mg/m3	N/E	N/E	N/E
4	N/E	N/E	N/E	N/E

no.	(ACGIH) TLV/TWA	TLV/CEILING	TLV/STEL	skin
1	N/E	N/E	N/E	N/E
2	.5mg/m3	N/E	N/E	N/E
3	10 mg/m3	N/E	N/E	N/E
4	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)

>> Component number 2 is listed by NTP andHA as a carcinogen or a possible carcinogen.**
Refer to appropriate reference sources for additional information concerning carcinogens.

SECTION XII ECOLOGICAL INFORMATION

CAS#	Component	Harmful to Aquatic Life	Not Harmful to Aquatic Life	May be Harmful to Aquatic
002807-30-9	2-PROPOXYETHANOL	: N	: Y	: N
001309-64-4	ANTIMONY TRIOXIDE	: Y	: N	: Y
001317-33-5	MOLYBDENUM DISULFIDE	: N	: Y	: N
025068-38-6	BISPHENOL A / EPICHLOROHYDRIN RESIN	: Y	: N	: Y

SECTION XIII DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

WASTE CHARACTERIZATIONS AND COMPLIANCE WITH APPLICABLE LAWS ARE THE SOLE RESPONSIBILITY OF THE END USER. ALL DISPOSAL PRACTICES USED FOR THIS PRODUCT AND ITS' CONTAINER(S) MUST BE IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. THE INFORMATION PRESENTED IN THIS MSDS PERTAINS ONLY TO THE PRODUCT AS SHIPPED.

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SECTION XIV. TRANSPORTATION INFORMATION

Land Transport
USDOT

Proper shipping name: PAINT, NOI
 NOS Components :
 Hazard class:
 ID-number:
 Packing group:
 Aquatic Toxicity: YES

Sea Transport
IMDG

Proper shipping name: ENVIRONMENTALLY HAZ SUBSTANCE NOS
 NOS Components : ANTIMONY TRIOXIDE
 Hazard class: 9
 ID-number: UN3082
 Packing group: III
 Aquatic Toxicity: YES

Air Transport
IATA/ICAO

Proper shipping name: ENVIRONMENTALLY HAZ SUBSTANCE NOS
 NOS Components : ANTIMONY TRIOXIDE
 Hazard class: 9
 ID-number: UN3082
 Packing group: III
 Aquatic Toxicity: YES

SECTION XV REGULATORY INFORMATION

CAS#	Component				
002807-30-9	2-PROPOXYETHANOL				
US TSCA Inventory	: YES	Canada Domestic Substance List	: YES	EC	: YES
Philippines	: YES	Japan	: YES	Korea	: YES
China	: YES	Australia	: YES		
001309-64-4	ANTIMONY TRIOXIDE				
US TSCA Inventory	: YES	Canada Domestic Substance List	: YES	EC	: YES
Philippines	: YES	Japan	: YES	Korea	: YES
China	: YES	Australia	: YES		
001317-33-5	MOLYBDENUM DISULFIDE				
US TSCA Inventory	: YES	Canada Domestic Substance List	: YES	EC	: YES
Philippines	: YES	Japan	: YES	Korea	: YES
China	: YES	Australia	: YES		

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SECTION XV REGULATORY INFORMATION

025068-38-6 BISPHENOL A / EPICHLOROHYDRIN RESIN

US TSCA Inventory : YES Canada Domestic Substance List : YES EC : YES
Philippines : YES Japan : YES Korea : YES
China : YES Australia : YES

PROPOSITION 65: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM

Table with 4 columns: no., component, CAS#, SARA. Rows include 2-PROPOXYETHANOL, ANTIMONY TRIOXIDE, MOLYBDENUM DISULFIDE, and BISPHENOL A / EPICHLOROHYDRIN RESIN.

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the Section 313 List (40 CFR Part 372.65) are identified under the heading 'SARA 313'.

SECTION XVI OTHER INFORMATION

- H M I S -

HEALTH : 2*
FLAMMABILITY : 1
REACTIVITY : 0
PERSONAL PROTECT.: X

(X = ask your supervisor for specialized handling directions)

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

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, WE MAKE NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.