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SECTION I

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mfg. code id : A905-M0A Revision level : 2-06/01/2015  
 trade name : SILVER LINING

SECTION II

HAZARD IDENTIFICATION



Danger



Warning



Warning

HAZARD CLASSIFICATION:

SKIN IRRITANT: CATEGORY 2  
 EYE IRRITANT: CATEGORY 2A  
 REPRODUCTIVE TOXICITY: CATEGORY 1B  
 STOT SE: CATEGORY 3  
 STOT RE: CATEGORY 1  
 ACUTE TOXICITY: CATEGORY 4  
 CARCINOGEN: CATEGORY 1A

HAZARD STATEMENTS:

EYE CONTACT

BASED ON THE PRESENCE OF COMPONENT 1 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 2 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 PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DERMATITIS.

INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENT 3 CHRONIC INHALATION OF SILICA DUST MAY CAUSE "SILICOSIS", A DISABLING PULMONARY FIBROSIS.

INGESTION

THIS PRODUCT MAY BE IRRITATING TO THE GASTROINTESTINAL TRACT IF INGESTED.

SIGNS AND SYMPTOMS

EYE, SKIN, RESPIRATORY, AND GASTRO-INTESTINAL IRRITATION AS NOTED ABOVE.

AGGRAVATED MEDICAL CONDITIONS

PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

OTHER HEALTH EFFECTS

\*\*\* SAFETY DATA SHEET \*\*\*

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BASED ON THE PRESENCE OF COMPONENT 3 PRODUCT IS PRESUMED TO BE CARCINOGENIC, GROUP 1. BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE LUNGS. BASED ON THE PRESENCE OF COMPONENT 3 "WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER." BASED ON THE PRESENCE OF COMPONENT 1 "WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM." BASED ON THE PRESENCE OF COMPONENT 2 CHRONIC OVEREXPOSURE MAY CAUSE "ARGYRIA" A GRAY PIGMENTATION OF THE EYES, SKIN AND MUCOUS MEMBRANES.

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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.

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SECTION III COMPOSITION/INFORMATION ON INGREDIENTS:

no.	component	CAS#	% by wt.	SARA	vapor pressure (mm Hg @ 20 C)	LEL (@ 25 C)
1	1-METHYL-2-PYRROLIDINONE	872-50-4	1 - 5	YES	.29	1.30
2	SILVER	7440-22-4	5 - 10	YES	N/A	N/A
3	QUARTZ	14808-60-7	< 1	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

IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER FOR AT LEAST 15 MINUTES USING SOAP IF AVAILABLE. SEEK PROMPT MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

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

DILUTE WITH TWO GLASSES OF WATER UNLESS THE VICTIM IS UNCONSCIOUS OR VERY DROWSY. INDUCE VOMITING BY GIVING TWO TABLESPOONS OF IPECAC OR BY TOUCHING A FINGER TO THE BACK OF THE VICTIM'S THROAT. KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

SECTION V FIRE FIGHTING MEASURES

flammability classification - OSHA : NOT APPLICABLE  
 - DOT : NOT REGULATED

EXTINGUISHING MEDIA

NOT APPLICABLE

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

NOT APPLICABLE

UNUSUAL FIRE AND EXPLOSION HAZARDS

NOT APPLICABLE

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.

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SECTION VII

HANDLING AND STORAGE  
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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.

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SECTION VIII

EMPLOYEE PROTECTION  
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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.

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SECTION IX

PHYSICAL PROPERTIES  
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% volatile by volume	: 39.58 +/- 2%	weight per gallon	: 7.60 +/- .2
% volatile by weight	: 43.32 +/- 2%	VOC as supplied is	.6405 pounds per gallon.

ODOR	: SLIGHT AMMONIA	PHYSICAL STATE	: LIQUID
pH	: 8.7 - 9.3	SPECIFIC GRAVITY	: 1.3361

flash point : NOT APPLICABLE

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SECTION X

STABILITY AND REACTIVITY  
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STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

BASED ON THE PRESENCE OF COMPONENTS 1 AND 2 AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 AVOID STRONG ACIDS. BASED ON THE PRESENCE OF COMPONENT 3 AVOID STRONG ALKALIES. BASED ON THE PRESENCE OF COMPONENT 2 AVOID GROSS WATER CONTAMINATION.

HAZARDOUS DECOMPOSITION PRODUCTS

OXIDES OF NITROGEN, 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	.01 mg/m3	N/E	N/E	N/E
3	.1mg/m3 (DUST)	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	0.1 mg/m3	N/E	N/E	N/E
3	.1mg/m3 (DUST)	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 3 is listed by NTP andRC 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
000872-50-4	1-METHYL-2-PYRROLIDINONE	: Y	: N	: Y
007440-22-4	SILVER	: Y	: N	: Y
014808-60-7	QUARTZ	: N	: Y	: N

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.

SECTION XIV TRANSPORTATION INFORMATION

Land Transport

USDOT

Proper shipping name: PAINT, NOI

NOS Components :

Hazard class:

ID-number:

Packing group:

Aquatic Toxicity: YES

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Sea Transport

IMDG

Proper shipping name: PAINT, NOI

NOS Components :

Hazard class:

ID-number:

Packing group:

Aquatic Toxicity: YES

Air Transport

IATA/ICAO

Proper shipping name: PAINT, NOI

NOS Components :

Hazard class:

ID-number:

Packing group:

Aquatic Toxicity: YES

SECTION XV

REGULATORY INFORMATION

CAS#	Component				
000872-50-4	1-METHYL-2-PYRROLIDINONE				
US TSCA Inventory	: YES	Canada Domestic Substance List	: YES	EC	: YES
Philippines	: UNKNOWN	Japan	: YES	Korea	: UNKNOWN
China	: UNKNOWN	Australia	: YES		

007440-22-4	SILVER				
US TSCA Inventory	: YES	Canada Domestic Substance List	: YES	EC	: YES
Philippines	: UNKNOWN	Japan	: UNKNOWN	Korea	: YES
China	: YES	Australia	: YES		

014808-60-7	QUARTZ				
US TSCA Inventory	: YES	Canada Domestic Substance List	: YES	EC	: YES
Philippines	: UNKNOWN	Japan	: UNKNOWN	Korea	: UNKNOWN
China	: UNKNOWN	Australia	: UNKNOWN		

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

no.	component	CAS#	SARA
1	1-METHYL-2-PYRROLIDINONE	872-50-4	YES
2	SILVER	7440-22-4	YES
3	QUARTZ	14808-60-7	NO

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	: 1
FLAMMABILITY	: 0
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.