

print date : 07/15/15

L270-G75 (page 1)

SECTION I

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mfg. code id : L270-G75 Revision level : 6-06/13/2015
trade name : #329 SOLID FILM LUBRICANT

SECTION II

HAZARD IDENTIFICATION



Danger



Warning



Danger



Warning

HAZARD CLASSIFICATION:

SKIN CORROSION: CATEGORY 1B
EYE DAMAGE: CATEGORY 1
STOT SE: CATEGORY 3
ACUTE TOXICITY: CATEGORY 4
STOT RE: CATEGORY 1

HAZARD STATEMENTS:

EYE CONTACT

BASED ON THE PRESENCE OF COMPONENT 1 PRODUCT IS PRESUMED TO BE SEVERELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE EXTENSIVE CORNEAL INJURY.

SKIN CONTACT

BASED ON THE PRESENCE OF COMPONENT 1 PRODUCT IS PRESUMED TO BE CORROSIVE TO THE SKIN.

INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. BASED ON THE PRESENCE OF COMPONENT 1 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

BASED ON THE PRESENCE OF COMPONENTS 1 AND 3 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE LUNGS.

PRECAUTIONARY STATEMENTS:

print date : 07/15/15

L270-G75 (page 2)

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	SODIUM SILICATE	1344-09-8	10 - 15	NO	N/A	N/A
2	MOLYBDENUM DISULFIDE	1317-33-5	35 - 40	NO	N/A	N/A
3	CARBON	7782-42-5	1 - 5	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.

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 LIQUID UNLESS THE VICTIM IS UNCONSCIOUS OR VERY DROWSY. IF VOMITING SPONTANEOUSLY OCCURS, 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.

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	: 78.75 +/- 2%	weight per gallon	: 13.97 +/- .2
% volatile by weight	: 46.95 +/- 2%		

ODOR	: MUSTY	PHYSICAL STATE	: LIQUID
pH	: N/A	SPECIFIC GRAVITY	: 1.6722

flash point : NOT APPLICABLE

SECTION X

STABILITY AND REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

BASED ON THE PRESENCE OF COMPONENTS 2 AND 3 AVOID OXIDIZING MATERIALS.

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	15 mg/m3	N/E	N/E	N/E
2	10 mg/m3	N/E	N/E	N/E
3	2.5 mg/m3	N/E	N/E	N/E

no.	(ACGIH) TLV/TWA	TLV/CEILING	TLV/STEL	skin
1	10 mg/m3	N/E	N/E	N/E
2	10 mg/m3	N/E	N/E	N/E
3	2.0 mg/m3	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)

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

SECTION XII ECOLOGICAL INFORMATION

CAS#	Component	Harmful to Aquatic Life	Not Harmful to Aquatic Life	May be Harmful to Aquatic
001344-09-8	SODIUM SILICATE	Y	N	Y
001317-33-5	MOLYBDENUM DISULFIDE	N	Y	N
007782-42-5	CARBON	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 TRANSPORTAION INFORMATION

Land Transport
USDOT

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

print date : 07/15/15

L270-G75 (page 6)

Sea Transport

IMDG

Proper shipping name: ENVIRONMENTALLY HAZ SUBSTANCE NOS
 NOS Components : SILICIC ACID, SODIUM SALT
 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 : SILICIC ACID, SODIUM SALT
 Hazard class: 9
 ID-number: UN3082
 Packing group: III
 Aquatic Toxicity: YES

SECTION XV REGULATORY INFORMATION

CAS#	Component				
001344-09-8	SODIUM SILICATE				
US TSCA Inventory	: YES	Canada Domestic Substance List	: YES	EC	: YES
Philippines	: YES	Japan	: YES	Korea	: YES
China	: UNKNOWN	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		

007782-42-5	CARBON				
US TSCA Inventory	: YES	Canada Domestic Substance List	: YES	EC	: YES
Philippines	: YES	Japan	: NO	Korea	: YES
China	: UNKNOWN	Australia	: YES		

no.	component	CAS#	SARA
1	SODIUM SILICATE	1344-09-8	NO
2	MOLYBDENUM DISULFIDE	1317-33-5	NO
3	CARBON	7782-42-5	NO

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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.

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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.

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