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SECTION 1

manufacturer : SANDSTROM PRODUCTS COMPANY
address : 224 South Main Street
: Port Byron, IL 61275
: USA
telephone# : (309) 523-2121
emergency# : (800) 424-9300
: (703) 527-3887

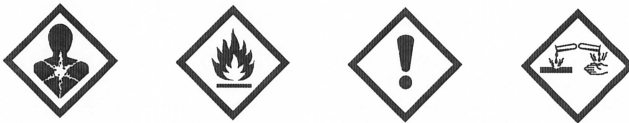
mfg. code id : E874-B01 Revision level : 2-03/01/2021

trade name : PTFE MODIFIED DRY FILM LUBRICANT

Recommended use of chemical: EPOXY

Restrictions on use: Do not use where there is a potential for contact with food.

SECTION 2 HAZARD IDENTIFICATION



HAZARD CLASSIFICATION:

DANGER!
FLAMMABLE LIQUID: CATEGORY 2
EYE DAMAGE: CATEGORY 1
SKIN IRRITANT: CATEGORY 2
SKIN SENSITIZER: CATEGORY 1
ACUTE TOXICITY: CATEGORY 4 (ORAL)
ASPIRATION HAZARD: CATEGORY: 1
REPRODUCTIVE TOXICITY: CATEGORY 2
CARCINOGEN: CATEGORY 2
STOT SE: CATEGORY 3 (ALL)
STOT RE: CATEGORY 2 (ORGANS)

HAZARD & PRECAUTIONARY STATEMENTS:

FLAMMABILITY

H225: HIGHLY FLAMMABLE LIQUID AND VAPOR. P210: KEEP AWAY FROM HEAT/ SPARKS/ OPEN FLAMES/ HOT SURFACES. -NO SMOKING. P233: KEEP CONTAINER TIGHTLY CLOSED. P240: GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT. P241: USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/ LIGHTING EQUIPMENT. P242: USE ONLY NON-SPARKING TOOLS. P243: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. P280: WEAR PROTECTIVE GLOVES/ EYE PROTECTION/ FACE PROTECTION. P303,P361,P353: IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P370,P378: IN CASE OF FIRE: USE MEDIA SPECIFIED IN SECTION V TO EXTINGUISH. P403,P235: STORE IN A WELL-VENTILATED PLACE. KEEP COOL. P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/ REGIONAL/ NATIONAL/ INTERNATIONAL REGULATIONS.

EYE CONTACT

H318: CAUSES SERIOUS EYE DAMAGE. P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECT ION. P305,P351,P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P310: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/ PHYSICIAN.

SKIN CONTACT

H315: CAUSES SKIN IRRITATION. P264: WASH HANDS AND EXPOSED BODY PARTS THOROUGHLY AFTER HANDLING. P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECT ION. P302,P352: IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. P362: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. P332,P313: IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ ATTENTION.

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INHALATION

NOT CLASSIFIED AS A HAZARDOUS SUBSTANCE OR MIXTURE FOR INHALATION.

INGESTION

H302: HARMFUL IF SWALLOWED. H304: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. P264: WASH HANDS AND EXPOSED BODY PARTS THOROUGHLY AFTER HANDLING. P270: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P301+P310: IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P330: RINSE MOUTH. P331: DO NOT INDUCE VOMITING. P405: STORE LOCKED UP. P501: DISPOSE OF CONTENTS/ CONTAINER IN ACCORDANCE WITH LOCAL/ REGIONAL/ NATIONAL/ INTERNATIONAL REGULATIONS.

HAZARDS NOT CLASSIFIED

NO DATA AVAILABLE.

OTHER HEALTH EFFECTS

H361: SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. H336: MAY CAUSE DROWSINESS OR DIZZINESS. H335: MAY CAUSE RESPIRATORY IRRITATION. H373: MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. P201: OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. P202: DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION. P260: DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPORS/ SPRAY. P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. P308+P313: IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ ATTENTION. P304+P340: IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. P312: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. P314: GET MEDICAL ADVICE/ ATTENTION IF YOU FEEL UNWELL. P405: STORE LOCKED UP. P403+P233: STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. P501: DISPOSE OF CONTENTS/ CONTAINER IN ACCORDANCE WITH LOCAL/ REGIONAL/ NATIONAL/ INTERNATIONAL REGULATION

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OTHER HAZARDS:

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 3

no.	component	CAS#	% by wt.	SARA	vapor pressure (mm Hg @ 20 C)	LEL (@ 25 C)
1	METHYL ETHYL KETONE	78-93-3	35 - 40	YES	70.20	1.80
2	TOLUENE	108-88-3	5 - 10	YES	22.00 @ 25 C	1.40
3	1-BUTANOL	71-36-3	1 - 5	YES	4.00	1.40
4	BUTYL CARBITOL	112-34-5	5 - 10	YES	.06	N/A
5	DIACETONE ALCOHOL	123-42-2	1 - 5	NO	.81	1.80

(N/A = not applicable)

SECTION 4

FIRST AID MEASURES

EYE CONTACT

IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

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.

>> COMPONENT 2 MAY CAUSE SEVERE, PERMANENT DAMAGE IF ASPIRATED AND VOMITING SHOULD NOT BE INDUCED.

SECTION 5

FIRE FIGHTING MEASURES

flammability classification - OSHA : FLAMMABLE LIQUID - CLASS IB  
 - DOT : FLAMMABLE LIQUID

EXTINGUISHING MEDIA

USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING. FLAMMABLE. 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 6 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 7 HANDLING AND STORAGE

FLAMMABILITY

H225: HIGHLY FLAMMABLE LIQUID AND VAPOR. P210: KEEP AWAY FROM HEAT/ SPARKS/ OPEN FLAMES/ HOT SURFACES. -NO SMOKING. P233: KEEP CONTAINER TIGHTLY CLOSED. P240: GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT. P241: USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/ LIGHTING EQUIPMENT. P242: USE ONLY NON-SPARKING TOOLS. P243: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. P280: WEAR PROTECTIVE GLOVES/ EYE PROTECTION/ FACE PROTECTION. P303,P361,P353: IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P370,P378: IN CASE OF FIRE: USE MEDIA SPECIFIED IN SECTION V TO EXTINGUISH. P403,P235: STORE IN A WELL-VENTILATED PLACE. KEEP COOL. P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/ REGIONAL/ NATIONAL/ INTERNATIONAL REGULATIONS.

SECTION 8 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 9 PHYSICAL PROPERTIES

% volatile by volume	: 70.24 +/- 2%	weight per gallon	: 8.15 +/- .2
% volatile by weight	: 60.13 +/- 2%	VOC as supplied is	4.8977 pounds per gallon.

PHYSICAL STATE	:	FLAMMABILITY (SOLID, GAS)	: NOT AVAILABLE
COLOR	: (B) Black	FLAMMABILITY/EXPLOSIVE LIMITS	: NOT AVAILABLE
ODOR	:	VAPOR PRESSURE	: NOT AVAILABLE
ODOR THRESHOLD	: NOT AVAILABLE	VAPOR DENSITY	: NOT AVAILABLE
pH	:	RELATIVE DENSITY	:
MELTING/FREEZING POINT	: NOT AVAILABLE	SOLUBILITY	: NOT AVAILABLE
INITIAL BOILING POINT	: NOT AVAILABLE	PARTITION COEFFICIENT	: NOT RELEVANT
BOILING RANGE	: NOT AVAILABLE	AUTO-IGNITION TEMPERATURE	: NOT AVAILABLE
EVAPORATION RANGE	: NOT AVAILABLE	DECOMPOSITION TEMPERATURE	: NOT AVAILABLE
		VISCOSITY (AT 77F)	: 55-70 KU,STORMER

flash point : 21 +/-2 degrees F. SETAFLASH

SECTION 10 STABILITY AND REACTIVITY

STABILITY : STABLE HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

BASED ON THE PRESENCE OF COMPONENTS 1, 2, 3, 4 AND 5 AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENT 3 AVOID STRONG ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS

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

SECTION 11 TOXICOLOGICAL INFORMATION

no.	(OSHA) PEL/TWA	PEL/CEILING	PEL/STEL	skin
1	200 ppm	N/E	N/E	N/E
2	100 ppm	300 ppm	N/E	N/E
3	100 ppm	50 ppm	N/E	Y
4	N/E	N/E	N/E	N/E
5	50 ppm	N/E	N/E	N/E

no.	(ACGIH) TLV/TWA	TLV/CEILING	TLV/STEL	skin
1	200 ppm	N/E	300 ppm	N/E
2	100 ppm	N/E	150 ppm	N/E
3	50 ppm CEILING.	N/E	N/E	Y
4	N/E	N/E	N/E	N/E
5	50 ppm	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 12 ECOLOGICAL INFORMATION

CAS#	Component	Harmful to Aquatic Life	Not Harmful to Aquatic Life	May be Harmful to Aquatic
000078-93-3	METHYL ETHYL KETONE	: N	: Y	: N
000108-88-3	TOLUENE	: Y	: N	: Y
000071-36-3	1-BUTANOL	: N	: Y	: N
000112-34-5	BUTYL CARBITOL	: N	: Y	: N
000123-42-2	DIACETONE ALCOHOL	: N	: Y	: N

SECTION 13 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 SDS PERTAINS ONLY TO THE PRODUCT AS SHIPPED.

SECTION 14 TRANSPORTATION INFORMATION

Land Transport

USDOT

Proper shipping name: PAINT  
 NOS Components : 1-BUTANOL  
 Hazard class: 3  
 ID-number: UN1263  
 Packing group: II  
 Aquatic Toxicity: YES

Sea Transport

IMDG

Proper shipping name: PAINT  
 NOS Components : 1-BUTANOL  
 Hazard class: 3  
 ID-number: UN1263  
 Packing group: II  
 Aquatic Toxicity: YES

Air Transport

IATA/ICAO

Proper shipping name: PAINT  
 NOS Components : 1-BUTANOL  
 Hazard class: 3  
 ID-number: UN1263  
 Packing group: II  
 Aquatic Toxicity: YES

SECTION 15 REGULATORY INFORMATION

CAS# Component

000078-93-3 METHYL ETHYL KETONE

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

000108-88-3 TOLUENE

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 15

REGULATORY INFORMATION CONTINUED

000071-36-3 1-BUTANOL

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

000112-34-5 BUTYL CARBITOL

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

000123-42-2 DIACETONE ALCOHOL

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

SECTION 15

REGULATORY INFORMATION CONTINUED



**WARNING** This product can expose you to chemicals including ETHYLENE OXIDE , which is known to the State of California cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

no.	component	CAS#	SARA
1	METHYL ETHYL KETONE	78-93-3	YES
2	TOLUENE	108-88-3	YES
3	1-BUTANOL	71-36-3	YES
4	BUTYL CARBITOL	112-34-5	YES
5	DIACETONE ALCOHOL	123-42-2	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 16

OTHER INFORMATION

- H M I S -

HEALTH	: 2*
FLAMMABILITY	: 3
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.