*** SAFETY DATA SHEET ***

E728-G35 (page 1)

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: E728-G35 Revision level: 12-07/20/21

Trade name: 28A SOLID FILM LUBRICANT - MIL-L-23398/MIL-PRF-46147

Recommended use of chemical: SOLID FILM LUBRICANT

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 IRRITANT: CATEGORY 2A

REPRODUCTIVE TOXICITY: CATEGORY 1

STOT SE: CATEGORY 3 (D/D)

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:

W319: CAUSES SERIOUS EYE IRRITATION. P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECT ION. P264: WASH HANDS AND EXPOSED BODY PARTS THOROUGHLY AFTER HANDLING. P305, P351, P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P337, P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ ATTENTION.

SKIN CONTACT:

NOT CLASSIFIED AS A HAZARDOUS SUBSTANCE OR MIXTURE IN CONTACT WITH SKIN.

INHALATION:

NOT CLASSIFIED AS A HAZARDOUS SUBSTANCE OR MIXTURE FOR INHALATION.INGESTION
NOT CLASSIFIED AS A HAZARDOUS SUBSTANCE OR MIXTURE FOR INGESTION.

HAZARDS NOT CLASSIFIED: NO DATA AVAILABLE.

OTHER HEALTH EFFECTS:

H360: MAY DAMAGE FERTILITY OR THE UNBORN CHILD. H336: MAY CAUSE DROWSINESS OR DIZZINESS. F201: OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. P202: DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. P2880: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECT ION. P261: AVOID BREATHING DUST/FUME/ GAS/ MIST/ VAPORS/ SPRAY. P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. P308+P313: IF EXPOSED OR CONCBRNED: GET MEDICAL ADVICE/ ATTENTION. P304+P340: IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREA THING. P312: CALL A POLSON CENTER OR DOCTOR/PHYSICIAN 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/ NATION AL/ INTERNATIONAL REGULATIONS.

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.

SECTION 3

										vapor p	oressur	e LEL
No.	componer	nt				CAS#	양	by wt.	SARA	(mm Hg @	20C) (@	25 c)
1.	2-PROPOXYP	ROPANOI	_			1569-01	-3	15-20	NO	1.70		1.50
2.	1,3-DIOXOL	ANE				646-06-	0	15-20	NO	70,00		N/A
3.	PROPYLENE	GLYCOL	METHYL	ETHER	ACETATE	108-65-	6	15-20	No	3.70	1.50	@ 200¢c
4.	ACETONE					67-64-1		10-15	No	182.00		2.60
	(N/A = not applicable					icable)						

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.

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 5 FIRE FIGHTING MEASURES

Flammability classification - OSHA: FLAMMABLE LIQUID - 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 SELFCONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED 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

KEEP AWAY FROM OPEN FLAMES, HOT SURFACES AND SOURCE OF IGNITION NO SMOKING

KEEP CONTAINER CLOSED IN A DRY AND VENTILATED AREA OBSERVE LABEL PRECAUTIONS

DO NOT EAT, DRINK OR SMOKE DURING USE

SECTION 8 EXPOSURE CONTROLS/EMPLOYEE PROTECTION

No.	(OSHA)	PEL/TWA	PEL/CEILING	PEL/STEL	SKIN
1	N/E	N/E	N/E	N/E	N/E
2	N/E	N/E	N/E	N/E	N/E
3	N/E	N/E	N/E	N/E	N/E
4	1000ppm	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	20ppm		N/E	N/E	N/E
3	N/E		N/E	N/E	N/E
4	250ppm		N/E	500ppm	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 $15\,\text{mg/m}3$ for total dust and $5\,\text{mg/m}3$ for the respirable fraction. ACGIH recommends a TLV/TWA of $10\,\text{mg/m}3$ 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.

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: 4.41 +/-2% weight per gallon: 9.90 +/- .2 % volatile by weight: 65.59 +/-2% VOC as supplied is 5.0476 pounds per gallon.

PHYSICAL STATE: LIQUID

FLAMMABILITY (SOLID, GAS): NOT AVAILABLE
COLOR: (G) Gray

FLAMMABILITY/EXPLOSIVE LIMITS: NOT AVAILABLE
ODOR: STRONG SOLVENT

ODOR THRESHOLD: NOT AVAILABLE

PH: N/A

MELTING/FREEZING POINT: NOT AVAILABLE
INITIAL BOILING POINT: 173 (degrees F)

BOILING RANGE: NOT AVAILABLE

EVAPORATION RANGE: NOT AVAILABLE

OCCUMPOSITION TEMPERATURE: NOT AVAILABLE

VISCOSITY (AT 77F): 15-25 SEC,#2 ZAHN

Flash point: 23 +/-2 degrees F. SETAFLASH

SECTION 10 STABILITY AND REACTIVITY

STABILITY: STABLE HAZARDOUS POLYMERIZATION: MAY OCCUR

CONDITIONS AND MATERIALS TO AVOID:

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

HAZARDOUS DECOMPOSITION PRODUCTS:

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

SECTION 11

TOXICOLOGICAL INFORMATION

COMPONENTS	CAS #	HAZARD	
2-PROPOXYPROPANOL	1569-01-3	IRRITATING TO EYES, INHALATION,	
		INGESTION	
1,3 DIOXOLANE	646-06-0	LD50 ORAL RAT	>2000 mg/kg
		LC50 INHALATION	68.4 mg/l/4h
		RAT mg/l	
2-METHOXYPROPYL	70657-70-4	STOT - SINGLE	RESPIRATORY
ACETATE		EXPOSURE	SYSTEM IRRITATION
ACETONE	67-64-1	IRRITATING TO	EXPOSURE TIME
		EYES	24HRS
		STOT - SINGLE	MAY CAUSE
		EXPOSURE	DROWSINESS OR
			DIZZINESS

SECTION 12

ECOLOGICAL INFORMATION

1569-01-3 2-PROPOXYPROPANOL Harmful to Aquatic Life: N Not Harmful to Aquatic Life: N May be Harmful to Aquatic: Y

646-06-0 1,3-DIOXOLANE
Harmful to Aquatic Life: N
Not Harmful to Aquatic Life: Y
May be Harmful to Aquatic: N

108-65-6 PROPYLENE GLYCOL METHYL ETHER ACETATE

Harmful to Aquatic Life: Y
Not Harmful to Aquatic Life: N
May be Harmful to Aquatic: Y

67-64-1 ACETONE

Harmful to Aquatic Life: Y
Not Harmful to Aquatic Life: N
May be Harmful to Aquatic: Y

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.

Component 1,3-DIOXOLANE

Canada Domestic Substance List: YES

SECTION 14 TRANSPORTATION INFORMATION

Land Transport:

USDOT

Proper shipping name: PAINT

NOS Components: Hazard class: 3 ID-number: UN1263 Packing group: II Aquatic Toxicity: YES

Sea Transport: IMDG

Proper shipping name: PAINT NOS Components: ACETONE

Hazard class: 3 ID-number: UN1263 Packing group: II Aquatic Toxicity: YES

Air Transport: IATA/ICAO

Proper shipping name: PAINT NOS Components: ACETONE

Hazard class: 3 ID-number: UN1263 Packing group: II

Aquatic Toxicity: YES

SECTION 15 REGULATORY INFORMATION

CAS# Component	t C.	CAS#	Compone	ent
1569-01-3 2-PROPOX	YPROPANOL 6	346-06-0	1,3-DIC	XOLA
US TSCA inventory: Y	ES U	S TSCA	Inventory:	YES

EC 3: YES EC: YES

Canada Domestic Substance List: YES

Philippines: YES Philippines: YES Japan: UNKNOWN Japan: YES

Korea: UNKNOWN Korea: YES China: YES China: YES Australia: YES Australia: NO

SECTION 15

Australia: YES

REGULATORY INFORMATION CONTINUED

CAS#	Component	CAS# Component		
108-65-6	Propylene Methyl Ether	67-64-1 ACETONE		
	Acetate			
		US TSCA inventory: YES		
US TSCA i	nventory: YES	Canada Domestic Substance List: YES		
Canada Doi	mestic Substance List: YES	EC: YES		
EC: YES		Philippines: YES		
Philippin	es: YES	Japan: YES		
Japan: YE	S	Korea: YES		
Korea: YE	S	China: YES		
China: UN	KNOWN	Australia: YES		

▲ WARNING This product can expose you to chemicals including FORMALDEHYDE, which is known to the State of California to cause cancer, and 4,4'-(1-METHYLETHYLIDENE)BISPHENOL, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

no	. component	CAS#	SARA
1. 2. 3.	2-PROPOXYPROPANOL 1,3-DIOXOLANE PROPYLENE GLYCOL METHYL ET		NO NO No
4.	ACETONE	67-64-1	No

SECTION 16

OTHER INFORMATION

HMIS:

HEALTH: 2
FLAMMABILITY: 3
REACTIVITY: 0
PERSONAL PROTECT: X

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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