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LUBRIPLATE No. 1444 SDS Preparation Date (mm/dd/yyyy): 09/22/2016

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the	label	
	: LUBRIPLATE No. 1444	
Product Code(s)	: L0227	
Recommended use of the che	mical and restrictions on use	
		<i>yy</i> -duty construction, quarry and mining equipment. ed bearings and chains that are subjected to heat, steam
Chemical family	: Mixture of : Petroleum oil; Polymer Other lubricant additives	; Metal oxides; Thickening agent; Rust preventative;
Name, address, and teleph the supplier:	one number of	Name, address, and telephone number of the manufacturer:
Fiske Brothers Refining Co Lubricants Co.	o. dba LUBRIPLATE	Refer to supplier
1500 Oakdale Avenue P.O. Box 8038, Station A Toledo, OH, USA 43605		
Supplier's Telephone #	: (419) 691-2491 (Monday - Friday,	8:30 am - 4:30 pm, Eastern Time)
24 Hr. Emergency Tel #	: CHEM-TEL: (800) 255-3924 (With (Outside U.S., please call collect).	in Continental U.S.); CHEM-TEL: +1 (813) 248-0585

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Off-white, tacky, solid grease. Mineral oil odor.

Most important hazards:

Causes serious eye irritation. May cause an allergic skin reaction. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Very toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See Section 12 for more environmental information.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Eye damage/irritation - Category 2A

Skin sensitization - Category 1

Label elements

Hazard pictogram(s)





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Hazard statement(s)

Causes serious eye irritation. May cause an allergic skin reaction.

Precautionary statement(s)

Avoid breathing fumes, mists or vapors. Wash hands and face thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye/face protection.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

Toxic fumes may be released during a fire. Direct skin contact may cause slight or mild, transient irritation. If product is heated, inhalation of fumes may cause irritation to the nose, throat and respiratory tract. Inhalation of fumes may result in metal fume fever, a flu-like illness. May cause gastrointestinal irritation.

Environmental precautions:

Very toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
Residual oils (petroleum) solvent-dewax	Base oil	64742-62-7	66.7%
Zinc oxide	Zinc monoxide	1314-13-2	6.0%
Mineral Oil	Paraffin oil Liquid petrolatum	8042-47-5	3.75%
5,5'-dithiobis-1,3,4-thiadiazole-2(3H)-thio ne	Not available.	72676-55-2	1.98%
Benzoic acid	Benzenecarboxylic acid Carboxybenzene	65-85-0	1.2%
Zinc bis(dibutyldithiocarbamate)	Zinc dibutyldithiocarbamate ZDBC	136-23-2	0.69%

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

-			
	Ingestion	:	Do not induce vomiting. Never give anything by mouth to an unconscious person. If symptoms develop, seek medical attention.
	Inhalation	:	If inhaled, move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation or symptoms develop, seek medical attention.
	Skin contact	:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
	Eye contact	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.



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Most important symptoms and effects, both acute and delayed

- : Causes serious eye irritation. Symptoms may include stinging, tearing, redness and swelling.
 - May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.
 - Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.
 - If product is heated, inhalation of fumes may cause irritation to the nose, throat and respiratory tract. May cause coughing and breathing difficulties. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	
:	Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Unsuitable extinguishing media	
:	None known.
Special hazards arising from the	substance or mixture / Conditions of flammability
:	Not considered flammable. However, may burn if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes may be released during a fire.
Flammability classification (OSH	A 29 CFR 1910.106)
:	Not classified as flammable.
Hazardous combustion products	
:	Carbon oxides; Nitrogen oxides (NOx); Sulfur oxides; Metal oxides; Aldehydes; Phenols; Other unidentified organic compounds.
Special protective equipment and	precautions for firefighters
Protective equipment for fire-fight	nters
:	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Normal protective clothing (bunker gear) may not be adequate. A full-body encapsulating chemical protective suit may be necessary.
Special fire-fighting procedures	
:	Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate personal protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.
- **Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.



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Methods and material for containment and cleaning up

: Ventilate the area. Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources. Use inert, non-combustible absorbents to assist the pick up of material. Scrape up product and place it into a container for disposal. Keep in properly labelled containers. Contact the proper local authorities.

Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): None known.

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling		
	:	Use with adequate ventilation. Wear protective equipment during handling. Wear protective gloves and eye/face protection. Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep container tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue and can be dangerous. Contaminated work clothing must not be allowed out of the workplace.
Conditions for safe storage	:	Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.
Incompatible materials	:	Strong oxidizing agents; Strong acids; Strong bases; Reducing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

xposure Limits:				
Chemical Name	ACGIH T	LV	OSHA PEL	
	TWA	<u>STEL</u>	PEL	<u>STEL</u>
Residual oils (petroleum) solvent-dewax	N/Av	N/Av	N/Av	N/Av
Zinc oxide	2 mg/m³ (respirable)	10 mg/m³ (respirable)	5 mg/m³ (fume); 15 mg/m³ (total dust); 5 mg/m³ (respirable)	N/Av
Mineral Oil	5 mg/m³ (inhalable) (As 'Oil mist, mineral')	N/Av	5 mg/m³ (As 'Oil mist, mineral')	N/Av
5,5'-dithiobis-1,3,4-thiadiazole-2(3H) -thione	N/Av	N/Av	N/Av	N/Av
Benzoic acid	N/Av	N/Av	N/Av	N/Av
Zinc bis(dibutyIdithiocarbamate)	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

: Provide adequate ventilation. Local ventilation is recommended if the product is misted or used in a confined space, or if the TLV is exceeded.



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Respiratory protection	SH-approved respirators. Respirators sl	ermissible exposure limit or are not known, use hould be selected based on the form and accordance with OSHA (29 CFR 1910.134) or
Skin protection		specific workplace should be discussed with the ing on conditions of use, an impervious apron
Eye / face protection	ar eye/face protection. Wear as appropri ng safety goggles. A full face shield may	riate: Safety glasses with side shields; Tightly also be necessary.
Other protective equipment	eyewash station and safety shower shou a. Other equipment may be required dep	uld be made available in the immediate working pending on workplace standards.
General hygiene consideration		
	npletion of work, wash hands before eati nove soiled clothing and wash it thoroug	oid contact with skin, eyes and clothing. Upon ing, drinking, smoking or use of toilet facilities. ghly before reuse. Handle in accordance with . Contaminated work clothing must not be

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Off-white, tacky, solid grease.	
Odor	:	Mineral oil odor.	
Odor threshold	:	N/Ap	
рН	:	N/Ap	
Melting/Freezing point	:	N/Av	
Initial boiling point and boiling	g ra	nge	
	:	> 288°C (550°F)	
Flash point	:	279°C (534.2°F)	
Flashpoint (Method)	:	Cleveland Open Cup	
Evaporation rate (BuAe = 1)	:	< 0.01 (butyl acetate = 1)	
Flammability (solid, gas)	:	Not flammable.	
Lower flammable limit (% by v	ol.)		
	:	N/Av	
Upper flammable limit (% by v	ol.)		
	:	N/Av	
Oxidizing properties	:	None known.	
Explosive properties	:	Not explosive	
Vapor pressure	:	< 0.01 mmHg (0.0013 kPa) @ 21.1°C (70°F)	
Vapor density	:	> 5 (Air = 1)	
Relative density / Specific gravity			
	:	0.97	
Solubility in water	:	Insoluble.	
Other solubility(ies)	:	N/Av	
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution			
	:	N/Av	
Auto-ignition temperature	:	N/Av	
Decomposition temperature	:	N/Av	
Viscosity	:	626 cSt @ 40°C (104°F)	
Volatiles (% by weight)	:	N/Ap	
Volatile organic Compounds (vo	C's)	
	:	N/Av	



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Absolute pressure of container

: N/Ap

Flame projection length : N/Ap

Other physical/chemical comments

: No additional information.

Reactivity	: Not normally reactive.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous rea	ctions
	Hazardous polymerization does not occur.
Conditions to avoid	: Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid heat and open flame.
Incompatible materials	Strong oxidizing agents; Strong acids; Strong bases; Reducing agents
Hazardous decomposition p	products
	: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation	:	YES
Routes of entry skin & eye	:	YES
Routes of entry Ingestion	:	YES

Routes of exposure skin absorption

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

	:	If product is heated, inhalation of fumes may cause irritation to the nose, throat and respiratory tract. May cause coughing and breathing difficulties. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.	
Sign and symptoms ingestion			
	:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Sign and symptoms skin	:	Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.	
Sign and symptoms eyes	:	Causes serious eye irritation. Symptoms may include stinging, tearing, redness and swelling.	
Potential Chronic Health Effect	ts		
	:	Repeated exposure may cause skin dryness or cracking.	
Mutagenicity	:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	:	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP. Note: The following petroleum derived chemicals contain < 3% DMSO: Residual oils (petroleum) solvent-dewax.	
Reproductive effects & Teratogenicity			

: This product is not expected to cause reproductive or developmental effects.



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Sensitization to material	material is classified as hazardous under U.S. OS com 2012) and Canadian WHMIS regulations (Ha IMIS 2015). Classification: sensitization - Category 1. May cause an allergic cause severe skin sensitization with allergic conta ling, rash and eczema. Contains: Zinc bis(dibutylc dithiobis-1,3,4-thiadiazole-2(3H)-thione.	azardous Products Regulations) skin reaction. act dermatitis symptoms such as
Specific target organ effects	classified as a specific target organ toxicity-single classified as a specific target organ toxicity - repea	
Medical conditions aggravate	rexposure	
	existing skin, eye and respiratory disorders.	
Synergistic materials	e known or reported by the manufacturer.	
Toxicological data	ata is available on the product itself. The calculate TE oral = 196,667 mg/kg TE dermal = 66,667 mg/kg	ed ATE values for this mixture are:

See below for individual ingredient acute toxicity data.

	LC50(4hr)	LD ₅₀			
Chemical name	inh, rat	(Oral, rat)	<u>(Rabbit, dermal)</u>		
Residual oils (petroleum) solvent-dewax	> 5.0 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg		
Zinc oxide	> 5.7 mg/L (dust) (No mortality)	> 5000 mg/kg	> 2000 mg/kg (No mortality)		
Mineral Oil	> 5 mg/L (mist) (No mortality)	> 5000 mg/kg	> 2000 mg/kg		
5,5'-dithiobis-1,3,4-thiadiazole- 2(3H)-thione	N/Av	> 2000 mg/kg	> 2000 mg/kg		
Benzoic acid	> 12.2 mg/L (dust) (No mortality)	2360 mg/kg	> 5000 mg/kg		
Zinc bis(dibutyldithiocarbamate)	N/Av	> 5000 mg/kg	> 2000 mg/kg (No mortality)		

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Very toxic to aquatic life with long lasting effects.

No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Zinc oxide; Zinc bis(dibutyldithiocarbamate); 5,5'-dithiobis-1,3,4-thiadiazole-2(3H)-thione.

See the following tables for the substance's ecotoxicity data.



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Ecotoxicity data:

		Toxicity to Fish				
Ingredients	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Residual oils (petroleum) solvent-dewax	64742-62-7	> 100 mg/L (Fathead minnow)	N/Av	None.		
Zinc oxide	1314-13-2	1.1 mg/L (Rainbow trout)	N/Av	None.		
Mineral Oil	8042-47-5	> 1000 mg/L (Rainbow trout)	> 1000 mg/L/28-day	None.		
5,5'-dithiobis-1,3,4-thiadiazole-2(3 H)-thione	72676-55-2	> 454 mg/L (Fathead minnow)	N/Av	None.		
Benzoic acid	65-85-0	44.6 mg/L (Bluegill sunfish)	> 120 mg/L/28-day (Rainbow trout)	None.		
Zinc bis(dibutyldithiocarbamate)	136-23-2	> 16 mg/L (Guppy)	N/Av	None.		

Ingredients	CAS No	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Residual oils (petroleum) solvent-dewax	64742-62-7	> 10 000 mg/L (Daphnia magna)	N/Av	None.		
Zinc oxide	1314-13-2	0.098 mg/L (Daphnia N/Av magna)		10		
Mineral Oil	8042-47-5	> 100 mg/L (Daphnia magna)	> 10 mg/L (Read-across)	None.		
5,5'-dithiobis-1,3,4-thiadiazole-2(3H)-thione	72676-55-2	3 mg/L (Daphnia magna)	N/Av	None.		
Benzoic acid	65-85-0	> 100 mg/L (Daphnia magna)	> 25 mg/L	None.		
Zinc bis(dibutyldithiocarbamate)	136-23-2	0.74 mg/L (Daphnia magna)	0.0032 mg/L (Daphnia magna)	10		

Ingredients	CAS No	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Residual oils (petroleum) solvent-dewax	64742-62-7	N/Av	≥ 100 mg/L/72hr (Green algae)	None.		
Zinc oxide	1314-13-2	0.044 mg/L/72hr (Green N/Av algae)		10		
Mineral Oil	8042-47-5	N/Av	> 100 mg/L/72hr (NOEL) (Green algae)	None.		
5,5'-dithiobis-1,3,4-thiadiazole-2(3H)-thione	72676-55-2	20 mg/L/72hr (Green algae) N/Av		None.		
Benzoic acid	65-85-0	> 33.1 mg/L/72hr (Green 0.11 mg/L/72hr algae)		None.		
Zinc bis(dibutyldithiocarbamate) 136-23-2		1.2 mg/L/96hr (Green algae)	N/Av	None.		



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Persistence and degradability

 No data is available on the product itself. The following ingredients are considered to be readily biodegradable: Benzoic acid. Contains the following chemicals which are considered to be inherently biodegradable: Mineral oil. Contains the following chemicals which are not readily biodegradable: Residual oils (petroleum) solvent-dewax; Zinc oxide; Zinc bis(dibutyldithiocarbamate); 5,5'-dithiobis-1,3,4-thiadiazole-2(3H)-thione.

Bioaccumulation potential : No data is available on the product itself. See the following data for ingredient information.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Residual oils (petroleum) solvent-dewax (CAS 64742-62-7)	3.9 - 6	N/Av
Zinc oxide (CAS 1314-13-2)	1.53 (estimated)	N/Av
Mineral Oil (CAS 8042-47-5)	> 6 (calculated)	N/Av
5,5'-dithiobis-1,3,4-thiadiazole-2(3 H)-thione (CAS 72676-55-2)	3 1.46	N/Av
Benzoic acid (CAS 65-85-0)	1.88	21 (Mosquito fish) 2800 (Daphnia magna)
Zinc bis(dibutyldithiocarbamate) (CAS 136-23-2)	7.04 (calculated)	90 (Fish)

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal Methods of Disposal	Handle waste according to recommendations in Section 7. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose in accordance with all applicable federal, state, provincial and local regulations.
RCRA	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.



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SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. [Zinc oxide; Zinc bis(dibutyldithiocarbamate)]	9	111	
TDG Additional information	This material magnetic the second sec	ay be shipped as an exempted marine pollutant in accordance	with TDG Section	on 1.45.1 an	d Special Provision
49CFR/DOT	None.	Not regulated.	not regulated	none	\bigotimes
49CFR/DOT Additional information	Not regulated us shipments, as a	l nless shipping internationally by sea or air. Refer to IMDG or I ppropriate.	ATA information	for internatio	onal sea or air
ICAO/IATA	UN3077	Environmentally hazardous substance, solid, n.o.s. [Zinc oxide; Zinc bis(dibutyldithiocarbamate)]	9	111	
ICAO/IATA Additional information	shipping this ma	oropriate Packing Instruction, prior to shipping this material. Re aterial. ntally hazardous' mark must appear on packagings holding me		•	Variations, prior to
IMDG	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. [Zinc oxide; Zinc bis(dibutyldithiocarbamate)]	9	111	
IMDG Additional information	gross mass.	as Limited Quantity when transported in containers no larger ntally hazardous' mark must appear on packagings holding mo	0. 1	Ū	exceeding 30 kg
pecial preca	utions for user	 Appropriate advice on safety must accompany the environment. 	he package. Av	oid release	e to the
nvironmenta	l hazards	 This product meets the criteria for an environment IMDG Code. See Section 12 for more environment 	,		according to the

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.



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SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
			Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Residual oils (petroleum) solvent-dewax	64742-62-7	Yes	ies None. None. No		No	N/Ap	
Zinc oxide	1314-13-2	Yes	None.	None.	No	N/Ap	
Mineral Oil	8042-47-5	Yes	None.	None.	No	N/Ap	
5,5'-dithiobis-1,3,4-thiadiaz ole-2(3H)-thione	72676-55-2	Yes	None.	None.	No	N/Ap	
Benzoic acid	65-85-0	Yes	5000 lb/ 2270 kg	None.	No	N/Ap	
Zinc bis(dibutyldithiocarbamate)	136-23-2	Yes	None.	None.	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Acute Health Hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	California Proposition 65		State "Right to Know" Lists						
	CAS#	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Residual oils (petroleum) solvent-dewax	64742-62-7	No	N/Ap	No	No	No	No	No	No
Zinc oxide	1314-13-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Mineral Oil	8042-47-5	No	N/Ap	No	No	No	No	No	No
5,5'-dithiobis-1,3,4-thiadiazol e-2(3H)-thione	72676-55-2	No	N/Ap	No	No	No	No	No	No
Benzoic acid	65-85-0	No	N/Ap	Yes	Yes	No	Yes	Yes	No
Zinc bis(dibutyldithiocarbamate)	136-23-2	No	N/Ap	No	No	No	No	No	No

California Proposition 65: This product contains chemicals known to the State of California to cause cancer and/or developmental harm. This product contains trace amounts of: Crystalline silica, quartz (< 0.1%); Toluene.

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI: White mineral oil (Part 5: Other groups and mixtures)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.



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International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Residual oils (petroleum) solvent-dewax	64742-62-7	265-166-0	Present	Present	Not listed	KE-30123	Present	May be used as a single component chemical under an appropriate group standard.
Zinc oxide	1314-13-2	215-222-5	Present	Present	(1)-561	KE-35565	Present	HSR003104
Mineral Oil	8042-47-5	232-455-8	Present	Present	(9)-1700	KE-35412	Present	May be used as a single component chemical under an appropriate group standard.
5,5'-dithiobis-1,3,4-thiadiaz ole-2(3H)-thione	72676-55-2	276-763-0	Present	Present	(5)-3588	KE-12736	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.
Benzoic acid	65-85-0	200-618-2	Present	Present	(3)-1397	KE-02696	Present	HSR003445
Zinc bis(dibutyldithiocarbamate)	136-23-2	205-232-8	Present	Present	(2)-2122	KE-03004	Present	HSR003981

SECTION 16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists : AICS: Australian Inventory of Chemical Substances CA: California CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations DOT: Department of Transportation ENCS: Existing and New Chemical Substances EPA: Environmental Protection Agency HMIS: Hazardous Materials Identification System HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer IATA: International Air Transport Association ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods Inh: Inhalation IOC: Inventory of Chemicals IUCLID: International Uniform Chemical Information Database **KECI: Korean Existing Chemicals Inventory** KECL: Korean Existing Chemicals List



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	LC: Lethal Concentration LD: Lethal Dose
	MA: Massachusetts
	MN: Minnesota
	mppcf: million particles per cubic foot
	MSHA: Mine Safety and Health Administration
	N/Ap: Not Applicable
	N/Av: Not Available
	NFPA: National Fire Protection Association
	NIOSH: National Institute of Occupational Safety and Health
	NJ: New Jersey
	NOEC: No observable effect concentration OECD: Organisation for Economic Co-operation and Development
	NTP: National Toxicology Program
	OSHA: Occupational Safety and Health Administration
	PA: Pennsylvania
	PEL: Permissible exposure limit
	PICCS: Philippine Inventory of Chemicals and Chemical Substances
	RCRA: Resource Conservation and Recovery Act
	RI: Rhode Island
	RTECS: Registry of Toxic Effects of Chemical Substances
	SARA: Superfund Amendments and Reauthorization Act
	SDS: Safety Data Sheet / Material Safety Data Sheet
	STEL: Short Term Exposure Limit TDG: Canadian Transportation of Dangerous Goods Act & Regulations
	TLV: Threshold Limit Values
	TWA: Time Weighted Average
	TSCA: Toxic Substance Control Act
	WHMIS: Workplace Hazardous Materials Identification System
References :	1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &
	Biological Exposure Indices for 2016.
	International Agency for Research on Cancer Monographs, searched 2016.
	3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016
	(Chempendium, HSDB and RTECs).
	4. Material Safety Data Sheets from manufacturer.
	 US EPA Title III List of Lists - March 2015 version. California Proposition 65 List - August 5, 2016 version.
	7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2016.
Preparation Date (mm/dd/yyyy)	
	09/22/2016
Other special considerations for handling	
-	-
	Provide adequate information, instruction and training for operators.
HMIS Rating :	*- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
	Health: *2 Flammability: 1 Reactivity: 0
NFPA Rating	0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
:	Health: 2 Flammability:1 Instability: 0 Special Hazards: None.



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