

# **Material Safety Data Sheet**

No. 100/105/107/110/115

### 1. Product and company identification

Product name : No. 100/105/107/110/115

Material uses : Petroleum lubricating grease

Supplier/Manufacturer : LUBRIPLATE® Lubricants Co.

129 Lockwood St. Newark, NJ 07105

Telephone no.: 1-973-589-9150

Validation date : 01/28/2015.

Prepared by : IHS

In case of emergency : CHEM-TEL 1-800-255-3924 (24 hour)

### 2. Hazards identification

Physical state : Solid. [grease]
Color : Off-white.
Odor : Mineral oil.

**Emergency overview** 

Signal word : CAUTION!

Hazard statements : MAY CAUSE EYE AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT

MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY

CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Precautions : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.Skin: ≸lightly irritating to the skin. Defatting to the skin.

**Eyes** : Slightly irritating to the eyes.

Potential chronic health effects

Chronic effects : Contains material that may cause target organ damage, based on animal data.

Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Carcinogenicity
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

Target organs : Contains material which may cause damage to the following organs: lungs, upper

respiratory tract, skin, eyes.

#### Over-exposure signs/symptoms

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### 2. Hazards identification

Inhalation

: No specific data.

Ingestion

: No specific data.

Skin

: Adverse symptoms may include the following:

irritation redness dryness cracking

**Eyes** 

: Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by overexposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

## 3. Composition/information on ingredients

#### **United States**

Name	CAS number	%
☑stillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	60-100
zinc oxide	1314-13-2	5-10

#### **Canada**

Name	CAS number	%
vinc oxide	64742-52-5 1314-13-2	60-100 5-10

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

**Eye contact** 

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact** 

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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### 5. Fire-fighting measures

Flammability of the product

: No specific fire or explosion hazard.

**Extinguishing media** 

**Suitable** 

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides sulfur oxides

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods for cleaning up

**Small spill** 

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** 

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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## 8. Exposure controls/personal protection

#### **United States**

Ingredient	Exposure limits
Distillates (petroleum), hydrotreated heavy naphthenic	ACGIH TLV (United States, 4/2014).
	TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction
	NIOSH REL (United States, 10/2013).
	TWA: 5 mg/m³ 10 hours. Form: Mist
	STEL: 10 mg/m³ 15 minutes. Form: Mist
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m³ 8 hours.
zinc oxide	NIOSH REL (United States, 10/2013).
	CEIL: 15 mg/m³ Form: Dust
	TWA: 5 mg/m³ 10 hours. Form: Dust and fumes
	STEL: 10 mg/m³ 15 minutes. Form: Fume
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 5 mg/m³ 8 hours. Form: Fume
	STEL: 10 mg/m³ 15 minutes. Form: Fume
	TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
	TWA: 10 mg/m³ 8 hours. Form: Total dust
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m³ 8 hours. Form: Fume
	TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
	TWA: 15 mg/m³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 4/2014).
	TWA: 2 mg/m³ 8 hours. Form: Respirable fraction
	STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction

#### Canada

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)		Ceiling					
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
zińc oxide	US ACGIH 4/2014	-	2	_	-	10	-	-	-	-	[a]
	AB 4/2009	-	2	-	-	10	-	-	-	-	[b]
	BC 7/2013	-	2	-	-	10	-	-	-	-	[b]
	ON 1/2013	-	2	-	-	10	-	-	-	-	[b] [a] [c]
	QC 1/2014	-	5	-	-	10	-	-	-	-	[c]
Distillates (petroleum), hydrotreated heavy naphthenic	US ACGIH 4/2014	-	5	-	-	-	-	-	-	-	[d]
, ,	AB 4/2009	-	5	-	-	10	-	-	-	-	[e]
	ON 1/2013	-	5	-	-	10	_	-	-	-	[e] [f] [f]
	QC 1/2014	-	5	-	-	10	-	-	-	-	[f]

Form: [a]Respirable fraction [b]Respirable [c]fume [d]Inhalable fraction [e]Mist [f]mist

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** 

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal protection**

### 8. Exposure controls/personal protection

Respiratory

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Eyes** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

Physical state : Solid. [grease]

Flash point : Open cup: 182°C (359.6°F) [Cleveland.]

Auto-ignition temperature : Not available.

Flammable limits : Lower: 0.9%
Upper: 7%

Color : Off-white.

Odor : Mineral oil.

pH : Not available.

Boiling/condensation point : >288°C (>550.4°F)

Melting/freezing point : Not available.

Relative density : 0.89 to 0.93 [Water = 1]

Density : Not available.
Vapor pressure : Not available.
Vapor density : Not available.
Odor threshold : Not available.

**Evaporation rate** : <0.01 (butyl acetate = 1)

**Viscosity** : Kinematic (40°C (104°F)): 0.58 cm²/s (58 cSt)

**Solubility** : Insoluble in the following materials: cold water and hot water.

LogK<sub>ow</sub>: Not available.

## 10. Stability and reactivity

**Chemical stability** 

**Conditions to avoid** 

**Incompatible materials** 

: The product is stable.

: Keep away from heat, sparks and flame. Keep away from all sources of ignition.

: Reactive or incompatible with the following materials: oxidizing materials.

Chlorine

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Possibility of hazardous** reactions

: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

#### 11. **Toxicological information**

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-

#### **Chronic toxicity**

Not available.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
zínc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Distillates (petroleum), hydrotreated heavy naphthenic	Skin - Severe irritant	Rabbit	-	500 milligrams	-

#### Sensitizer

Not available.

#### **Carcinogenicity**

**Conclusion/Summary** 

: The mineral oils in the product contain < 3% DMSO extract (IP 346).

#### **Classification**

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
instillates (petroleum), hydrotreated heavy naphthenic	A4	-	-	-	-	-

#### **Mutagenicity**

Not available.

#### **Teratogenicity**

Not available.

#### Reproductive toxicity

Not available.

## 12. Ecological information

#### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
<b>z</b> nc oxide	Acute EC50 0.042 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water Chronic NOEC 0.017 mg/l Fresh water	Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata - Exponential growth phase	96 hours 72 hours

Persistence/degradability

Not available.

## 13. Disposal considerations

#### Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.					
TDG Classification	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide). Marine pollutant (zinc oxide)	9	III	BASINE POLLUTAIT	The product is not regulated as a dangerous good when transported by road or rail.  Explosive Limit and Limited Quantity Index  5  Special provisions 16

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14. Transport information							
IMDG Class	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide). Marine pollutant (zinc oxide)	9	III		The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules (EmS) F-A, S-F  Special provisions 274, 335, 966, 967	
IATA-DGR Class	UN3077	Environmentally hazardous substance, solid, n.o.s. (zinc oxide)	9	III		The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Passenger and Cargo AircraftQuantity limitation: 400 kg Packaging instructions: 956 Cargo Aircraft Only Quantity limitation: 400 kg Packaging instructions: 956 Limited Quantities - Passenger AircraftQuantity limitation: 30 kg Packaging instructions: Y956 Special provisions A97, A158, A179	

PG\*: Packing group

#### **Regulatory information 15**.

**United States** 

**HCS Classification** : Irritating material

Target organ effects

**U.S. Federal regulations** TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Immediate (acute) health hazard, Delayed

(chronic) health hazard

**☑lean Water Act (CWA) 307**: zinc oxide; zinc bis(dibutyldithiocarbamate)

Clean Water Act (CWA) 311: sodium hydroxide

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act Section 112 : Not listed

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602 : Not listed

**Class I Substances** 

Clean Air Act Section 602

: Not listed

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

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**DEA List II Chemicals** (Essential Chemicals)

: Not listed

#### **SARA 313**

	Product name	CAS number	Concentration
Form R - Reporting requirements	zínc oxide	1314-13-2	5-10
Supplier notification	<b>z</b> inc oxide	1314-13-2	5-10

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

#### State regulations

Massachusetts : The following components are listed: ZINC OXIDE FUME

New York : None of the components are listed.

New Jersey : The following components are listed: MINERAL OIL (HIGHLY REFINED); OIL MIST,

MINERAL; ZINC OXIDE

Pennsylvania: The following components are listed: ZINC OXIDE (ZNO)

California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	•	3 3	Maximum acceptable dosage level
rystalline silica non-respirable	Yes.	No.	No.	No.

#### **Canada**

WHMIS (Canada) : Not controlled under WHMIS (Canada).

**Canadian lists** 

Canadian NPRI : The following components are listed: Zinc (and its compounds)

CEPA Toxic substances : None of the components are listed.

Canada inventory : MI components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### **International regulations**

International lists : Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

**Philippines inventory (PICCS)**: All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

**Chemical Weapons** 

**Convention List Schedule** 

**I Chemicals** 

: Not listed

Chemical Weapons

**Convention List Schedule** 

**II Chemicals** 

: Not listed

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### 15. Regulatory information

Chemical Weapons
Convention List Schedule
III Chemicals

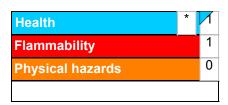
: Not listed

### 16. Other information

Label requirements

: MAY CAUSE EYE AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of issue : 01/28/2015.

Date of previous issue : 01/17/2014.

Version : 4

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.