

# **Material Safety Data Sheet**

### FGL-0/00/000/1/2/CC

### 1. Product and company identification

Product name : FGL-0/00/000/1/2/CC

Material uses : Petroleum lubricating grease/(Food grade)

Code : NSF# 043531/043532/043534/043536/043530

Supplier/Manufacturer : LUBRIPLATE® Lubricants Co.

129 Lockwood St. Newark, NJ 07105

Telephone no.: 1-973-589-9150

Validation date : 04/14/2014.

Prepared by : IHS

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

### 2. Hazards identification

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

**Emergency overview** 

Hazard statements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN

THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Precautions : No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin

and clothing.

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and

available for employees and other users of this product.

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

Potential acute health effects

Inhalation
 Ingestion
 No known significant effects or critical hazards.
 Skin
 No known significant effects or critical hazards.
 Eyes
 No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects
 Carcinogenicity
 No known significant effects or critical hazards.
 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.

Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.

04/14/2014. United States/Canada 1/10

#### FGL-0/00/000/1/2/CC

#### 2. Hazards identification

Skin

: No specific data.

**Eyes** 

: No specific data.

**Medical conditions** 

aggravated by over-

exposure

: None known.

#### Composition/information on ingredients 3.

#### **United States**

Name	CAS number	%
White mineral oil (petroleum)	8042-47-5	60-100
Butene, polymers	9003-29-6	5-10
zinc oxide	1314-13-2	5-10

#### Canada

Name	CAS number	%
₩hite mineral oil (petroleum)	8042-47-5	60-100
Zinc oxide	1314-13-2	5-10
White mineral oil (petroleum)	8042-47-5	1-5

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 if symptoms occur.

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 if symptoms occur.

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 if symptoms occur.

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 if symptoms occur.

**Protection of first-aiders** Notes to physician

- No action shall be taken involving any personal risk or without suitable training.
- : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

#### 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.

### 5. Fire-fighting measures

#### 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. 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. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, 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.

#### **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.

## 8. Exposure controls/personal protection

**United States** 

# 8. Exposure controls/personal protection

Ingredient	Exposure limits
White mineral oil (petroleum)  zinc oxide	ACGIH TLV (United States, 2/2010).  TWA: 5 mg/m³ 8 hour(s). Form: Inhalable fraction  ACGIH TLV (United States).  TWA: 5 mg/m³ Form: Mist  STEL: 10 mg/m³ Form: Mist  NIOSH REL (United States, 6/2009).  TWA: 5 mg/m³ 10 hour(s). Form: Mist  STEL: 10 mg/m³ 15 minute(s). Form: Mist  OSHA PEL (United States, 6/2010).  TWA: 5 mg/m³ 8 hour(s).  NIOSH REL (United States, 6/2009).  CEIL: 15 mg/m³ Form: Dust  TWA: 5 mg/m³ 10 hour(s). Form: Dust and fumes  STEL: 10 mg/m³ 15 minute(s). Form: Fume  OSHA PEL 1989 (United States, 3/1989).  TWA: 5 mg/m³ 8 hour(s). Form: Fume  STEL: 10 mg/m³ 15 minute(s). Form: Fume  STEL: 10 mg/m³ 8 hour(s). Form: Total dust  OSHA PEL (United States, 6/2010).  TWA: 5 mg/m³ 8 hour(s). Form: Total dust  OSHA PEL (United States, 6/2010).  TWA: 5 mg/m³ 8 hour(s). Form: Total dust  OSHA PEL (United States, 6/2010).  TWA: 5 mg/m³ 8 hour(s). Form: Total dust  ACGIH TLV (United States, 2/2010).  TWA: 2 mg/m³ 8 hour(s). Form: Respirable fraction  STEL: 10 mg/m³ 15 minute(s). Form: Respirable fraction  STEL: 10 mg/m³ 15 minute(s). 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
zinc oxide	US ACGIH 2/2010	-	2	-	-	10	-	-	-	-	[a]
	AB 4/2009	-	2	-	-	10	-	-	-	-	[b]
	BC 9/2010	-	2	-	-	10	-	-	-	-	[b] [a] [c]
	ON 7/2010	-	2	-	-	10	-	-	-	-	[a]
	QC 6/2008	-	5	-	-	10	-	-	-	-	[c]
White mineral oil (petroleum)	US ACGIH 2/2010	-	5	-	-	-	-	-	-	-	[d]
	US ACGIH	-	5	-	-	10	-	-	-	-	[e]
	BC 9/2010	-	1	-	-	-	-	-	-	-	
	ON 7/2010	-	5	-	-	10	-	-	-	-	[f]
	QC 6/2008	-	5	-	-	10	-	-	-	}	[f] [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.

#### **Engineering measures**

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

#### **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.

### 8. Exposure controls/personal protection

### **Personal protection**

Respiratory : Use a properly fitted, air-purifying or air-fed 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.

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.

**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: 238 to 260°C (460.4 to 500°F)

Auto-ignition temperature : Not available.

Flammable limits : Lower: 0.9%

Upper: 7%

**Color** : White./Off-white.

Odor : Mineral oil.

pH : Not available.

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

Melting/freezing point: Not available.Relative density: 0.96 to 0.98Density: Not available.

Vapor pressure : <0.0013 kPa (<0.01 mm Hg)

Vapor density : >5 [Air = 1]
Odor threshold : Not available.

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

Viscosity : Not available.

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

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

### FGL-0/00/000/1/2/CC

# 10. Stability and reactivity

**Chemical stability** 

**Conditions to avoid** 

Incompatible materials

Hazardous decomposition

products

Possibility of hazardous reactions

: 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.

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

not be produced.

: 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
White mineral oil (petroleum)	LD50 Oral	Rat	>5000 mg/kg	-

#### **Chronic toxicity**

Not available.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc oxide	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-

#### **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
White mineral oil (petroleum)	A4	-	-	-	-	-
zinc oxide	A4	-	-	-	-	-

### **Mutagenicity**

Not available.

#### **Teratogenicity**

Not available.

### **Reproductive toxicity**

Not available.

# 12. Ecological information

### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
zinc oxide	Acute LC50 98 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <24 hours	48 hours
	Acute LC50 1.1 to 2.5 ppm Fresh water Chronic NOEC 0.4 mg/L Fresh water	Fish - Oncorhynchus mykiss Daphnia - Daphnia magna - Neonate	96 hours 48 hours

#### Persistence/degradability

Not available.

# 13. Disposal considerations

#### Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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. 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

UN number	Proper shipping name	Classes	PG*	Label	Additional information
Mot regulated.					
Mot regulated.					<b>/</b>
UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide). Marine pollutant (zinc oxide)	9	III		Fre 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
	Not regulated. Not regulated.	name  Not regulated.  Not regulated.  UN3077  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide). Marine pollutant (zinc	name  Not regulated.  Not regulated.  UN3077  NVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide). Marine pollutant (zinc	name  Not regulated.  Not regulated.  UN3077  NOT POWER TO POWER T	name  Not regulated.  Not regulated.  UN3077  NOT REMARKAN SUBSTANCE, SOLID, N.O.S. (zinc oxide). Marine pollutant (zinc)

#### FGL-0/00/000/1/2/CC **Transport information** 14. **IATA-DGR Class** UN3077 **E**nvironmentally The environmentally 9 Ш hazardous substance mark hazardous substance, is not required when solid, n.o.s. (zinc transported in sizes of ≤5 L oxide) or ≤5 kg. Passenger and Cargo **<u>Aircraft</u>**Quantity limitation: Packaging instructions: 956 Cargo Aircraft Only Quantity limitation: 400 kg Packaging instructions: 956 **Limited Quantities -**Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y956 **Special provisions** A97, A158, A179

PG\*: Packing group

# **Regulatory information**

### **United States**

**HCS Classification** : Not regulated.

U.S. Federal regulations

: TSCA 8(a) CDR Exempt/Partial exemption: Partial exemption

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

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: zinc oxide

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: zinc

oxide: Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: zinc oxide Clean Water Act (CWA) 311: benzoic acid

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)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals) **SARA 313** 

#### FGL-0/00/000/1/2/CC

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

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

: The following components are listed: ZINC OXIDE; OIL MIST, MINERAL, MINERAL **New Jersey** 

OIL (HIGHLY REFINED)

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

California Prop. 65

None of the components are listed.

Canada

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

**Canadian lists** 

Canadian NPRI : The following components are listed: Zinc; White mineral oil

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : At least one component is not listed in DSL but all such components are listed in NDSL.

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): Not determined.

China inventory (IECSC): Not determined.

Japan inventory: Not determined. Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

**Chemical Weapons** 

**Convention List Schedule** 

**I Chemicals** 

**Chemical Weapons Convention List Schedule** 

**II Chemicals** 

**Chemical Weapons** 

**Convention List Schedule** 

**III Chemicals** 

: Not listed

: Not listed

: Not listed

### 16. Other information

**Label requirements** 

: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

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.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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 : 04/14/2014.

Date of previous issue : 06/07/2012.

Version : 2

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.