

## ΛΙΠΑΝΤΙΚΟ ΕΓΚΑΤΑΣΤΑΣΗΣ ΠΑΡΕΜΒΥΣΜΑΤΩΝ



# **GRINNELL LUBRICANT**

During installation of a Grinnell Coupling, always lubricate the gasket. Grinnell offers three kinds of lubricant;

- Grinnell Traditional Lubricant
- Quick Dry Lubricant
- Grease, Extreme Temperature Lubricant (GETL)

Check lubricant chart to be certain of the proper lubricant recommended for the service intended. For information on health safety see the attached material safety data sheets.



Application	Traditional Lubricant	Quick Dry Lubricant	GETL (Grinnell Extreme Temperature Lubricant)
Fire Protection	•	•	•
Chilled Water	•		•
Heating			•
Compressed Air	•	•	•
Drainage	•	•	•
Sewage	•	•	•
Process < 66°C (150°F)	•		•
Process > 66°C (150°F)			•
Drinking Water	•	•	

The below table will give an indication on the number of gaskets which can be lubricated with 1 kg lubricant

Gasket Size	Traditional Lubricant	Quick Dry Lubricant	GETL (Grinnell Extreme Temperature Lubricant)
50 mm / 2"	440	440	1000
80 mm / 3"	300	300	700
100 mm / 4"	220	220	500
150 mm / 6"	135	135	300
200 mm / 8"	110	110	250
250 mm / 10"	85	85	200
300 mm / 12"	65	65	160
350 mm / 14"	55	55	140
400 mm / 16"	50	50	120
450 mm / 18"	38	38	90
500 mm / 20"	33	33	80
600 mm / 24"	20	20	50





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# **MATERIAL SAFETY DATA SHEET**

#### **SECTION I - IDENTITY**

Product Name: Grinnell Lubricant

Common Name: Grinnell Traditional Lubricant

Chemical Family: Soap Formula: Proprietary

### **SECTION 2 - HAZARDOUS INGREDIENTS**

This product does not contain any hazardous ingredients (Non -Hazardous)

### **SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS**

Boiling Point, Deg. F: Not Applicable Physical State: Paste Vapor Pressure: Not Applicable Odor: Soapy % volatile (Vol): 16.5% Maximum Color: Amber Vapor Density: Not Applicable Specific Gravity: 1.0-1.2

Evaparation Rate: Not Applicable (water-1)

Solubility In Water: Complete

### **SECTION 4 - FIRE AND EXPLOSION DATA**

Flash Point, Deg. F: >250

Flammability: Not Applicable

Extinguishing Media: Water, alcohol foam, carbon dioxide, dry chemical

Unusual Fire and Explosion Hazards: None Special Fire Fighting Procedures: None

### **SECTION 5 - HEALTH HAZARD INFORMATION**

First Aid

Eyes: Flush with water for 15 minutes. If irritation persists, contact physician.

Skin: Flush with water. If irritation persists, contact physician. Ingestion: Induce vomiting. Contact physician if necessary.

No toxic. LD50 for simular products exeeds 5 mg/kg.

Effects of Overexposure: Irration at site of contact.

### **SECTION 6 - REACTIVITY DATA**

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatability (Materials to Avoid): Stronoxidizers
Conditions to Avoid: Not Applicable

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

## **SECTION 7 - SPILL OR LEAK PROCEDURES**

Action to be taken if material is released or spilled: Flush to drain. Material is diodegradable.

Slippery material, use caution when

cleaning spill.

Disposal Method: Flush to drain or bury in a approved landfill for

water soluble, non-toxic chemicals.

### **SECTION 8 - SPECIAL PROTECTION INFORMATION**

The use of rubber gloves and safety glasses or goggles are recommended.

### **SECTION 9 - SPECIAL PRECAUTIONS**

Avoid eye contact. Wash soiled clothing before reuse.

The information contained herein is obtained from sources and based on data believed to be reliable and accurate. However, Grinnell makes no warranty expressed or implied as to the absolute correctness or sufficiency of particular conditions of handling, storage use and disposal beyond our knowledge or control.



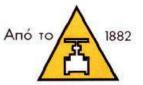


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## ΛΙΠΑΝΤΙΚΟ ΥΨΗΛΗΣ ΘΕΡΜΟΚΡΑΣΙΑΣ

# **MATERIAL SAFETY DATA SHEET**



ΧΡΥΣΑΦΙΔΗΣ Α.Ε.

### **SECTION I - IDENTITY**

Product Name: Lubricant

Common Name: Grinnell, Extreme Temperature Lubricant (GETL)

Chemical Family: Mixture Formula: Proprietary

### **SECTION 2 - HAZARDOUS INGREDIENTS**

This product does not contain any hazardous ingredients (Non -Hazardous) per 29 CFR 1900.1200

### **SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS**

Paste Like Boiling Point, Deg. F: Not Applicable Physical State: Very Little Vapor Pressure(mmHg): < 5% @ 20°C Odor: < 5% Off White % volatile (Vol): Color: Vapor Density: Not Applicable Specific Gravity (68°F): 0.97@25°C Rel. Evaporation Rate: < 1% (Ether = 1) (water-1)

Flash Point, (TCC, °F): 200°F/93°C(Close Cup)

#### **SECTION 4 - FIRE AND EXPLOSION DATA**

Flash Point, Deg. F: >200 (93°C)
Flammability: Not Applicable
Extinguishing Media: Dry chemical, Carbon

Dioxide or a universal: type foam Unusual Fire and Explosion Hazards: None

Special Fire Fighting Procedures: Wear appropriate protective equipment

including respiratory protection as conditions warrant. Stop spill/release if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors and cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purpose.

### **SECTION 5 - HEALTH HAZARD INFORMATION**

Eyes Contact: Direct contact may cause tempory discomfort with mild dryness and redness. Skin Contact: Short exposures should cause no known adverse effects. Prolonged exposure

(24-48 hrs) may cause irritation.

Inhalation (breathing): Not considered a hazard under normal operating conditions.

Is not likely to be inhaled.

Ingestion (swallowing): Not considered a hazardous material for cases of ingestion.

Swallowing large amounts of product may cause digestive discomfort.

### **SECTION 6 - REACTIVITY DATA**

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatability (Materials to Avoid): Strong acids and bases

Hazardous Decomposition Products: Oxides of carbon and silica emmitted on combustion

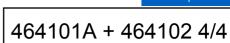
### **SECTION 7 - SPILL OR LEAK PROCEDURES**

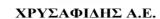
Action to be taken if material is released or spilled: Contain spill in a diked area and clean to prevent from entering storm drains and streams.

Waste Disposal Method: Dispose of product in accordance with local, county, state and federal regulations.









## MATERIAL SAFETY DATA SHEET

### **SECTION 8 - SPECIAL PROTECTION INFORMATION**

Ventilation: Normal ventilation for the condition is required. Respiratory Protection: Not required under normal operating conditions.

Protective Gloves: The use of gloves impermeable to the specific material handled

is advised to prevent skin contact and possible irritation for workers with

a sensitivity to this product.

Eye Protection: Approved eye protection to safeguard against potential eye contact,

especially when hot, is recommended.

### **SECTION 9 - SPECIAL PRECAUTIONS**

Handling and storage precausions: Keep all containers tightly closed, cool , dry and away from all sources of ignition.

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