

## Guardian Crystal FM Grease #2



**Product Code**  
34100B

**MSDS Date**  
11/09/2009

### 1. Identification of the preparation and company

<b>Preparation/Product Name</b>	Guardian Crystal FM Grease #2
<b>Product Code</b>	34100B
<b>Company Name</b>	LUBRICATING SPECIALTIES COMPANY 8015 PARAMOUNT BLVD. PICO RIVERA, CA 90660
<b>Telephone No.</b>	(562) 776-4000
<b>24 hour Emergency Telephone No.</b>	(800) 424-9300
<b>General MSDS</b>	(562) 776-4000

### 2. Hazard identification of the product

#### Warning

#### GHS Classification:

Item	Category	Hazard
Flammability	Not classified	Not applicable
Acute Toxicity (mouth)	Not classified	Not applicable
Acute Toxicity (skin)	5	May be harmful in contact with skin
Acute Toxicity (inhalation)	Not classified	Not applicable
Acute Toxicity (ingestion)	Not classified	Not applicable
Skin corrosion/irritation	Not classified	Not applicable
Eye damage/irritation	Not classified	Not applicable

Sensitization (respiratory)	Not classified	Not applicable
Sensitization (skin)	Not classified	Not applicable
Germ toxicity	Not classified	Not applicable
Specific target organ systemic toxicity (single exposure)	1	No target organs for this category.
	2	No target organs for this category.
	3	narcotic effects, respiratory system
Specific target organ systemic Toxicity (repeated exposure)	1	liver
	2	No target organs for this category.
Aspiration hazard	Not classified	Not applicable
Harmfulness to aquatic Environment (acute)	Not classified	Not applicable
Harmfulness to aquatic Environment (long term effect)	Not classified	Not applicable
Carcinogenicity	Not classified	Not applicable
Reproductive Toxicity	Not classified	Not applicable
Organic Peroxide	Not classified	Not applicable

**Safety Phrases:** Not Applicable

### 3. Composition/information on ingredients

**Mixture :** Yes

Ingredient	CAS Number	Concentration
1-Decene, homopolymer, hydrogenated	068037-01-4	<30
1-Decene, trimer, hydrogenated	068649-12-7	<50
Ethyl alcohol	000064-17-5	<3
Polybutene	009003-29-6	<3
Silane, dichlorodimethyl-, reaction products with Silica	068611-44-9	<30

Contains no other ingredients now known to be hazardous as defined by OSHA 29 CFR 1910.1000(z)

### 4. First aid measures

<b>Inhalation</b>	Remove exposed person to fresh air. If breathing is labored, administer oxygen and obtain immediate medical attention. If irritation persists or if toxic symptoms are observed, get medical attention.
<b>Eye Contact</b>	Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
<b>Skin Contact</b>	Wash immediately with soap and water. Remove soiled clothing. Get medical attention if irritation develops. Launder contaminated clothing.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.

## 5. Fire-fighting measures

**Flash Point °C** 232

Slightly Combustible. May release flammable vapors when heated above flash point.

**Extinguishing Media** Carbon Dioxide, dry chemical, or foam. Avoid using water.

**Combustion Products** Carbon monoxide and asphyxiants.

**Special Fire Procedures** Recommend SCBA. Use water only for cooling container. Water may cause splattering, or transport the flame.

## 6. Accidental release measures

Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see PPE section 8 & 16. Remove sources of ignition. Prevent entry into sewers and waterways. Contain release, pick up free liquid for recycling or disposal. Residual liquid can be absorbed with inert material. Check DOT/CERCLA and other agencies for reporting requirements.

Prevent contamination to soil, waterway and sewer systems.

## 7. Handling and storage

**Handling** Avoid prolonged skin contact, breathing vapors, and contaminated clothing. Use with adequate ventilation. Wear recommended protective equipment. Practice good personal hygiene after handling. Empty containers retain material residue. Do not cut, weld, braze, solder or expose containers to other ignition sources.

**Storage** Store in closed containers of proper construction. Store away from ignition sources and in areas of good ventilation.

## 8. Exposure controls and personal protection

<b>Exposure Limits</b>	The PEL (OSHA) and the TLV (ACGIH) is 5 mg/m <sup>3</sup> for oil mists.
<b>Ventilation</b>	Use in areas of adequate ventilation. Use mechanical exhaust to control vapors or mists.
<b>Gloves</b>	Nitrile or neoprene gloves are recommended.
<b>Eye Protection</b>	Safety glasses, goggles, or face shield are recommended.
<b>Respiratory Protection</b>	Use NIOSH/MSHA approved respirator with organic vapor cartridge and dust/mist cartridge is recommended if exposure limit is exceeded. Self-contained breathing apparatus is recommended for confined space entry.
<b>Clothing</b>	Long sleeve shirt and apron when potential for skin contact. Wear neoprene or nitrile rubber boots when necessary to avoid contaminating shoes.

## 9. Physical and chemical properties

<b>Appearance</b>	CLEAR GREASE	<b>Odor</b>	MILD ODOR
<b>Flash Point °C</b>	>232	<b>Boiling Point °C</b>	>332
<b>VOC %</b>	NIL	<b>pH</b>	n/d
<b>Specific Gravity</b>	0.832	<b>Solubility in Water</b>	negligible
<b>Vapor Pressure</b>	<0.01 mmHg@20 °C	<b>Vapor Density</b>	Heavier than air.
<b>Evaporation Point</b>	less than ether		
<b>Flammability</b>	Materials classified as DOT Combustible Liquids (Flash Point > 141 °F and < 200 °F) are not regulated by DOT in containers of 110 gallons, or less for domestic shipments.		

## 10. Stability and reactivity

<b>Stability</b>	Material is normally stable at ambient temperature and pressure.
<b>Conditions to Avoid</b>	Do not store with strong oxidizing agents. Keep away from heat, sparks, open flame, or all sources of ignition.
<b>Polymerization</b>	Will not occur.
<b>Decomposition</b>	Carbon dioxide, carbon monoxide.

## 11. Toxicological information

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr

1-Decene, homopolymer, hydrogenated	5,000.00, rat - Category: 5	> 2,000, rabbit - Category: 5	----
1-Decene, trimer, hydrogenated	3,500.00, rat - Category: 1	5,000.00, rabbit - Category: 5	----
Ethyl alcohol	1,501.00, Rat - Category: 4	----	124.70, Rat - Category: NA
Polybutene	34,600.00, rat - Category: NA	10,250.00, rabbit - Category: NA	----
Silane, dichlorodimethyl-, reaction products with Silica	----	----	----

**Oral Toxicity** Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.

**Eye Irritation** Not expected to cause eye irritation.

**Skin Irritation** Not expected to be a primary skin irritant. Prolonged or repetitive contact may cause irritation.

### Carcinogenicity

CAS Number	Ingredient		
068037-01-4	1-Decene, homopolymer, hydrogenated	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
068649-12-7	1-Decene, trimer, hydrogenated	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
000064-17-5	Ethyl alcohol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
009003-29-6	Polybutene	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
068611-44-9	Silane, dichlorodimethyl-, reaction products with Silica	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California	Listed: No

OSHA

## 12. Ecological information

This material is expected to have adverse effects on marine and plant life. Spills may contaminate drinking water.

## 13. Disposal considerations

Consult federal, state and local regulations regarding disposal methods, recycle used oil. Do not contaminate used oil with solvents or other chemicals.

## 14. Transport information

See 49 CFR part 171.8 through 178.510

<b>Proper Shipping Name</b>	Oil, n.o.s
<b>Hazard Class</b>	Not regulated
<b>UN No</b>	Not applicable
<b>Packaging Group</b>	Not applicable
<b>Marine Pollutant</b>	No
<b>GHS Hazard Class</b>	Not applicable
<b>GHS Shipping Information</b>	Not applicable
<b>IMDG</b>	Not Regulated

## 15. Regulatory information

<b>TSCA:</b>	All components of this product are listed on the United States TSCA (Toxic Control Substance Act) Inventory.
<b>RCRA:</b>	Not regulated
<b>SARA 311/312 (&gt;0.1%):</b>	Not applicable
<b>SARA 313 (&gt;0.1%):</b>	Not applicable
<b>CERCLA (&gt;0.1%):</b>	
<b>Inventory - Canada - Non-Domestic Substances List (NDSL):</b>	Not applicable
<b>California Proposition 65 Cancer:</b>	Not applicable

**California Proposition 65****Developmental:**

Ethyl alcohol (<3 %)

**California Proposition 65** Not applicable

**Female Reproductive:**

**California Proposition 65 Male** Not applicable

**Reproductive:****Inventory - Australia -****Inventory of Chemical****Substances (AICS):**

1-Decene, homopolymer, hydrogenated

1-Decene, trimer, hydrogenated

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates

Ethyl alcohol

Phosphorothioic acid, O,O,O-triphenyl ester

Polybutene

Polyisobutylene

Silane, dichlorodimethyl-, reaction products with Silica

**Inventory - Japan Existing and****New Chemical Substances****(ENCS):**

1-Decene, homopolymer, hydrogenated ( )

Ethyl alcohol (2-202)

Phosphorothioic acid, O,O,O-triphenyl ester (3-3370)

Polybutene (6-774)

Polyisobutylene (5-774; 6-774)

**Korean Existing Chemicals****Inventory:**

1-Decene, homopolymer, hydrogenated

Ethyl alcohol

Phosphorothioic acid, O,O,O-triphenyl ester

Polybutene

Polyisobutylene

**Inventory of Existing Chemical****Substances in China:**

1-Decene, homopolymer, hydrogenated

Polybutene

Polyisobutylene

**Philippines Inventory of**

### Chemicals and Chemical Substances (PICCS) :

1-Decene, homopolymer, hydrogenated  
 1-Decene, trimer, hydrogenated  
 Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates  
 Ethyl alcohol  
 Phosphorothioic acid, O,O,O-triphenyl ester  
 Polybutene  
 Polyisobutylene  
 Silane, dichlorodimethyl-, reaction products with Silica

### Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act :

Methylisobutyl ketone

### EU REACH: Annex XVII, Dangerous Substances and Preparations:

### Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS):

1-Decene, homopolymer, hydrogenated ()  
 1-Decene, trimer, hydrogenated ()  
 Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates (279-632-6)  
 Ethyl alcohol (200-578-6)  
 Phosphorothioic acid, O,O,O-triphenyl ester (209-909-9)  
 Polybutene ()  
 Polyisobutylene ()  
 Silane, dichlorodimethyl-, reaction products with Silica (271-893-4)

### EU List of Notified Chemical Substances (ELINCS): Not applicable

**Risk Phrases:** Not Applicable

## 16. Other information

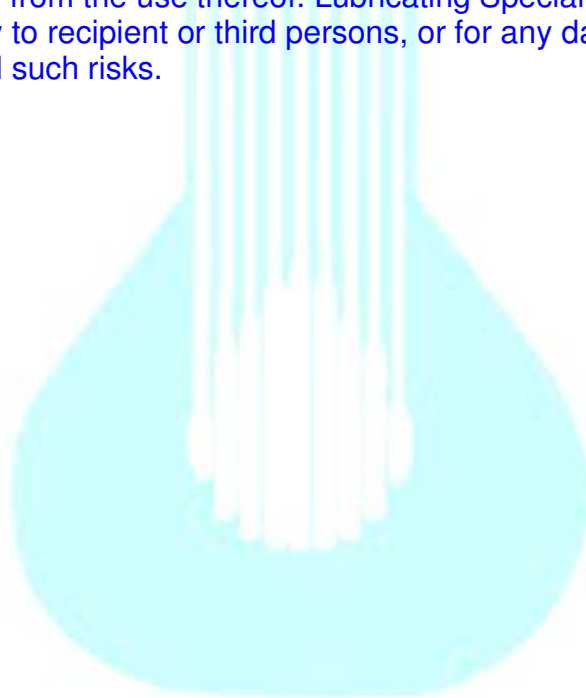
<b>HMIS</b>	<b>Health:</b>	1	<b>NFPA</b>	<b>Health:</b>	1
	<b>Fire:</b>	1		<b>Fire:</b>	1



**Physical Hazards:** 0  
**PPE:** C

**Reactivity:** 0  
**Special Hazards:** ---

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**LSC**

