

## Safety Data Sheet

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Guardsman Crystal Syn FM Grease #2

**Product Grades/Codes:**

Guardsman Crystal Syn FM Grease #2 –34320D (Drum), 34320P (Pail)

#### 1.2. Intended Use of the Product

See Technical Data Sheet.

#### 1.3. Company Identification

North American Lubricants Company  
7337 E. Doubletree Ranch Road, Suite 180  
Scottsdale, AZ 85258  
(800)430-6252  
[www.nalube.com](http://www.nalube.com)

#### 1.4. Emergency Telephone Number

**Emergency Number** : CHEMTREC: (800)424-9300 or (703)527-3887

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

**Classification (GHS-US)**

Not Classified

#### 2.2. Label Elements

**GHS-US Labeling**

Using the Toxicity Data listed in section 11 & 12 the product is labeled as follows:

Not classified

HMIS	Health: 0	NFPA	Health: 0
	Fire: 1		Fire: 1
	Physical: 0		Reactivity: 0

Hazards:

PPE: C

#### 2.3. Other Hazards

The mixture contains no PBT/vPvB chemicals.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product Identifier	% (w/w)	EC No. 1272/2008 Classification (GHS-US)
1-Decene, homopolymer, hydrogenated	(CAS No) 0068037-01-4	<70	Not Classified
Silane treated silica	(CAS No) 0068611-44-9	<30	Not Classified
Butene, polymer with 2-methyl-1-propene	(CAS No) 0009044-17-1	<3	Not Classified

\*The full texts of the phrases are shown in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**General:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** If inhaled, remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. If unconscious, place in the recovery position and seek medical attention immediately.

**Skin Contact:** In case of contact, immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation occurs, seek medical attention. Launder contaminated clothing before reuse.

**Eye Contact:** In case of contact, immediately rinse eyes with plenty of fresh, clean water for at least 15 minutes. Remove contact lenses if present and continue rinsing. Seek medical attention immediately.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

No data available.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

Use carbon dioxide (CO<sub>2</sub>), dry chemical, or foam to extinguish flames.

### 5.2. Special Hazards Arising from the Substance or Mixture

Hazardous Decomposition Products: May form CO and CO<sub>2</sub>.

### 5.3. Advice for Firefighters

Self-contained full-face positive pressure breathing apparatus (SCBA) should be used. Water can be used to cool and protect exposed material. Do not allow runoff water and contaminants from firefighting to enter drains or water courses.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Avoid contact with spilled material. Use suitable personal protective equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate personnel to safe areas. Keep unnecessary personnel away.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and Material for Containment and Cleaning Up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in Section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (see section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or water courses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

Dispose of in accordance with all federal, state and local environmental regulations.

#### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

**Handling** – Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation.

**In Storage** – Store in a dry location at room temperature. Keep this container and vapors from the container away from heat and flame. Keep container closed and maintain all original markings and labels.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Keep away from strong oxidizing and reducing agents.

CAUTION!!! Do not use cutting or welding torches on drums, even when empty. Do not reuse container. Containers, even though that have been emptied will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

#### 7.3. Specific End Use(s)

There are no exposure scenarios, see details in section 1.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

The following occupational exposure limits have been established:

CAS Number	Ingredient	Source	Value
0009044-17-1	Butene, polymer with 2-methyl-1-propene	OSHA ACGIH NIOSH	No Established Limit No Established Limit No Established Limit
0068037-01-4	1-Decene, homopolymer, hydrogenated	OSHA ACGIH NIOSH	No Established Limit No Established Limit No Established Limit
0068611-44-9	Silane treated silica	OSHA ACGIH NIOSH	No Established Limit No Established Limit No Established Limit

Contains mineral oil. The exposure limits for mist oil are 5 mg/m<sup>3</sup> OSHA PEL and 10 mg/m<sup>3</sup> ACGIH.

### Carcinogen Data

CAS Number	Ingredient	Source	Value
0009044-17-1	Butene, polymer with 2-methyl-1-propene	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No
0068037-01-4	1-Decene, homopolymer, hydrogenated	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No
0068611-44-9	Silane treated silica	OSHA IARC	Select Carcinogen: No Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No

### DNEL/PNEC Values

No Data Available.

### 8.2. Exposure Controls

No special requirements under ordinary conditions of use and with adequate ventilation.

#### Eye/Face Protection

Wear safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.

#### Skin Protection

Wear chemical resistant gloves. Gloves should be inspected before each use and discarded if they show tears, pinholes, or signs of wear.

#### Other

Gloves, overalls, apron, boots, or other suitable protective garments should be worn to minimize contact based on the task being performed.

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### Respiratory Protection

Use NIOSH/OSHA approved respirator where high vapor concentrations are present.

### Thermal Hazards

No Data Available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Grease
Appearance	: Amber
Odor	: Petroleum odor
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Boiling Point	: Not available
Flash Point	: >200 C
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Heavier than air
Relative Density	: 1.0106
Solubility	: Negligible
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available
Viscosity, Kinematic	: Not available
Explosive Properties	: Product is not explosive
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge

The data listed above are typical physical and chemical properties that do not constitute product specification.

9.2. Other information: DMSO extract by IP346: Less than 3.0 wt % (mineral oil component only)

## SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: No data available.

10.2. Chemical Stability: Material is normally stable at ambient temperature and pressure.

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- 10.3. **Possibility of Hazardous Reactions:** May react with: oxidizing agents.
- 10.4. **Conditions to Avoid:** High temperatures, sparks, and open flames.
- 10.5. **Incompatible Materials:** Keep away from strong oxidizing and reducing agents.
- 10.6. **Hazardous Decomposition Products:** Thermal decomposition generates: carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

The preparation has been assessed using the Acute Toxicity Data listed below, and classified for toxicological hazards accordingly. See section 2 for details.

Ingredient	Oral LD50, mg/kg	Skin LD50,	Inhalation vapor LD50, mg/L/4hr
1-Decene, homopolymer, hydrogenated – (0068037-01-4)	>5,000, Rat	>2,000, Rabbit	Not Available
Butene, polymer with 2-methyl-1-propene-(0009044-17-1)	Not Available	Not Available	Not Available
Silane treated silica – (0068611-44-9)	Not Available	Not Available	Not Available

**Acute Toxicity:** Not classified

**Skin Corrosion/Irritation:** Not classified

**Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Overexposure may be irritating to the respiratory system.

**Symptoms/Injuries After Skin Contact:** Repeated or prolonged skin contact may cause irritation.

**Symptoms/Injuries After Eye Contact:** Direct contact with the eyes is likely irritating.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Not Classified

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

**Ecology - General:** Toxic to aquatic life.

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Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
1-Decene, homopolymer, hydrogenated – (0068037-01-4)	Not Available	Not Available	Not Available
Silane treated silica – (0068611-44-9)	10,000.00, Danio rerio	10,000.00 Daphnia magna	10,000.00 (72 hr), Scenedesmus subspictus
Butene, polymer with 2-methyl-1-propene – (0009044-17-1)	Not Available	Not Available	Not Available

### 12.2. Persistence and Degradability

Not available

### 12.3. Bioaccumulative Potential

Not available

### 12.4. Mobility in Soil

Not available

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

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

## SECTION 14: TRANSPORT INFORMATION

- |   |   |
|---|---|
| <b>14.1. UN number</b>  | Not applicable                                |
| <b>14.2. UN proper shipping name</b>  | Not regulated for transport                   |
| <b>14.3. Transport hazard class(es)</b>   |   |
| <b>US DOT Label</b>   | Not regulated for transport                   |
| <b>ADR/RID</b>  | Not regulated for transport                   |
| <b>IMDG</b>   | Not regulated for transport                   |
| <b>Sub Class</b>  | Not applicable                                |
| <b>14.4. Packing group</b>  | Not applicable                                |
| <b>14.5. Environmental hazards</b>  |   |
| <b>ADR/RID</b>  | Environmentally Hazardous: No – Not regulated |
| <b>IMDG</b>   | Marine Pollutant: No – Not regulated          |
| <b>14.6. Special precautions for user</b>   | No further information                        |
| <b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable                                |

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## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

United States:

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

<b>SARA Section 311/312 Hazard Classes</b>	Not applicable
<b>SARA 313 (&gt;0.1%):</b>	Not applicable
<b>CERCLA (&gt;0.1%):</b>	Not applicable
<b>Inventory – Canada – Non- Domestic Substances List (NDSL):</b>	Not applicable
<b>California Proposition 65 Cancer:</b>	Not applicable
<b>California Proposition 65 Developmental:</b>	Not applicable
<b>California Proposition 65 Female Reproductive:</b>	Not applicable
<b>California Proposition 65 Male Reproductive:</b>	Not applicable
<b>Inventory – Australia – Inventory of Chemical Substances (AICS):</b>	1-Decene, homopolymer, hydrogenated Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates Ethanol Phosphorothioic acid, O,O,O-triphenyl ester Silane treated silica Mineral oil
<b>Inventory – Japan Existing and New Chemical Substances (ENCS):</b>	1-Decene, homopolymer, hydrogenated Ethanol (2-202) Phosphorothioic acid, O,O,O-triphenyl ester (3-3370) Mineral Oil
<b>Korean Existing Chemicals Inventory:</b>	1-Decene, homopolymer, hydrogenated Ethanol Phosphorothioic acid, O,O,O-triphenyl ester Mineral oil
<b>Inventory of Existing Chemical Substances in China:</b>	1-Decene, homopolymer, hydrogenated Mineral Oil
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS):</b>	1-Decene, homopolymer, hydrogenated Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates Butene, polymer with 2-methyl-1-propene Ethanol Phosphorothioic acid, O,O,O-triphenyl ester Silane treated silica Mineral oil
<b>Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical</b>	Not applicable
<b>EU REACH: Annex XVII, Dangerous Substances and Preparations:</b>	Not applicable



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<b>Inventory – European Union – European Inventory of Existing Commercial Chemical Substances (EINECS):</b>	1-Decene, homopolymer, hydrogenated Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates (279-632-6) Ethanol (200-578-6) Phosphorothioic acid, O,O,O-triphenyl ester (209-909-9) Silane treated silica (271-893-4) Mineral oil (232-455-8)
<b>EU List of Notified Chemical Substances (ELINCS):</b>	Not applicable

Risk Phrases – Not Classified.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

The full text of the phrases appearing in section 3 is:

**Revision Date** : 5/16/2016

**Other Information** : This information has been compiled from sources considered to be dependable and is accurate to the best of our North American Lubricants Company's knowledge.

#### Party Responsible for the Preparation of This Document

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS 2