Conforms to ANSI Z400.5-2004 Standard (United States, Canada).



Material Safety Data Sheet

Synthetic Polymeric EP Grease NLGI #1; Synthetic Polymeric EP Grease NLGI #2

Section 1. Product and company identification

Product name

Synthetic Polymeric EP Grease NLGI #1; Synthetic Polymeric EP Grease NLGI #2

Material uses

Lubricating grease.

Supplier/Manufacturer

AMSOIL INC. 925 Tower Avenue Superior, WI 54880 Code

GPTR1 & GPTR2

MSDS authored by

AMSOIL INC.

In case of emergency

CHEMTREC: (800) 424-9300

1-800-985-5823

Section 2. Hazards identification

Emergency overview

Color : Purple.

Physical state : Paste. [Grease.]

Odor : Mild./Petroleum. [Slight]

Signal word : WARNING!

Hazard statements : CAUSES EYE AND SKIN IRRITATION.

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).

Potential acute health effects

Inhalation : No known significant effects or critical hazards.Ingestion : No known significant effects or critical hazards.

Skin : Irritating to skin.

Eyes : Irritating to eyes.

Potential chronic health effects

Chronic effects
 No known significant effects or critical hazards.
 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.

Skin: Adverse symptoms may include the following:

irritation redness

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Eyes

: Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by over: None known.

exposure

See toxicological information (section 11)

Section 3. Composition/information on ingredients

United States

CAS number % Calcium carbonate 471-34-1 1 - 5 68649-42-3 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Canada

CAS number Name 471-34-1 Calcium carbonate 1 - 5 68649-42-3 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 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.

Section 4. First aid measures

Eye contact

: Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact

: After contact with skin, wash immediately with plenty of soap and water. Get medical attention if symptoms occur.

Inhalation

: Move exposed person to fresh air. 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.

Notes to physician

: No specific antidote. Treat symptomatically.

Section 5. Fire-fighting measures

Flammability of the product

Extinguishing media

: No specific fire or explosion hazard.

Suitable

: Use dry chemical, CO₂, water spray (fog) or foam.

Not suitable

: None known.

Hazardous decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen 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.

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Section 6. Accidental release measures

Personal precautions

: Provide adequate ventilation. 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

- : Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see section 8). Avoid contact with used product. 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. Avoid contact with eyes, skin and clothing. 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.

Section 8. Exposure controls/personal protection

United States

Ingredient	Exposure limits
Calcium carbonate	OSHA PEL (United States, 11/2006). TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m³ 8 hour(s). Form: Total dust ACGIH TLV (United States, 11/2006). TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m³ 8 hour(s). Form: Total dust

Under conditions which may generate mists, the following additional exposure limits are recommended: ACGIH TLV TWA: 5 mg/m³; STEL: 10 mg/m³.

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
Calcium carbonate	US ACGIH 11/2006 AB 4/2009 QC 6/2008		5 15 10 10	- - -	- - -	- - -		- - -	-		[b] [c] [3] [d]

[3]Skin sensitization

Form: [a]Mist [b]Respirable fraction [c]Total dust [d]Total dust.

Under conditions which may generate mists, the following additional exposure limits are recommended: ACGIH TLV TWA: 5 mg/m3; STEL: 10 mg/m3.

Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring: 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. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

: Ensure that evewash stations and safety showers are close to the workstation location. 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.

Respiratory

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. Not required under normal conditions of use. Recommended: Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.

Hands

: Use gloves appropriate for work or task being performed. Not required under normal conditions of use. Recommended: Natural rubber (latex).

Eyes

Safety eyewear should be used when there is a likelihood of exposure. Not required under normal conditions of use. Recommended: Safety glasses with side shields.

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. No special protective clothing is required. Recommended: Coveralls.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Section 9. Physical and chemical properties

: Paste. [Grease.] **Physical state** Odor : Mild./Petroleum. [Slight]

Color : Purple. Ha : Not available. : Open cup: >93.33°C (>200°F) [Cleveland.] **Auto-ignition** : Not available. Flash point

temperature

Flammable limits : Not available. : Not available. **Melting point/**

Pour point

0.8700 g/ml @15.6°C (60°F)

Boiling point : Not available. : <0.013 kPa (<0.1 mm Hg) Vapor pressure

: 0.8686:0.8688 : >5 [Air = 1] Relative density Vapor density

< 0.1% (v/v)**Evaporation rate**: <0.1 (butyl acetate = 1) Volatility : Insoluble in water. **Viscosity** : Not available. Solubility

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Section 10. Stability and reactivity

Chemical stability

Conditions to avoid

Materials to avoid

Hazardous decomposition

products
Possibility of hazardous

Possibility of hazardous reactions

Hazardous polymerization

: The product is stable.

: No specific data.

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

: Under normal conditions of storage and use, hazardous decomposition products should

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.

Section 11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Calcium carbonate	LD50 Oral	Rat	6450 mg/kg	-

<u>Chronic toxicity</u>: No specific data.

Section 12. Ecological information

Environmental effects

: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	
Calcium carbonate	Acute LC50 >56000000 ug/L Fresh water	Fish - Gambusia affinis - Adult 96	hours

Section 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

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.

Section 14. Transport information

DOT/TDG/IMDG/IATA

: Not regulated.

Section 15. Regulatory information

United States

HCS Classification

: Irritating material

U.S. Federal regulations

: 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: Calcium carbonate

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

Calcium carbonate: Immediate (acute) health hazard

Clean Water Act (CWA) 307: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc

salts

Clean Water Act (CWA) 311: No products were found.

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

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

New Jersey

Massachusetts : None of the components are listed.

New York : None of the components are listed.

: The following components are listed: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters,

zinc salts

Pennsylvania : The following components are listed: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters,

zinc salts

California Prop. 65

No products were found.

Canada

WHMIS (Canada)

: Class D-2B: Material causing other toxic effects (Toxic).

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

Canadian ARET: None of the components are listed.

Canadian NPRI: The following components are listed: Phosphorodithioic acid, O,O-di-

C1-14-alkyl esters, zinc salts

Alberta Designated Substances: None of the components are listed.

Ontario Designated Substances: None of the components are listed.

Quebec Designated Substances: None of the components are listed.

Canada inventory

: All 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): 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.

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Section 16. Other information

United States

Label requirements : CAUSES EYE AND SKIN IRRITATION.

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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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.

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