

#### **Material Safety Data Sheet**

#### AMSOIL Synthetic Polymeric Off-Road Grease, NLGI #1, NLGI #2

### Section 1. Product and company identification

**Product name** 

AMSOIL Synthetic Polymeric Off-Road Grease, NLGI #1, NLGI #2

Material uses
Lubricating Grease.

Supplier/Manufacturer

AMSOIL INC 925 Tower Avenue Superior, WI 54880 Code

GPOR1, GPOR2

MSDS authored by

**AMSOIL INC** 

In case of emergency

CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

### Section 2. Hazards identification

**Emergency overview** 

Color : Gray. [Dark]
Physical state : Grease.
Odor : Mild. (Faint.)
Signal word : WARNING!

Hazard statements : CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED

THROUGH SKIN OR IF SWALLOWED.

Precautions : Do not ingest. Do not get in eyes. Avoid contact with 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**: May be harmful if swallowed.

Skin : May be harmful if absorbed through skin. Irritating to skin.Eyes : Severely irritating to eyes. Risk of serious damage to eyes.

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.
 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 overexposure : None known.

See toxicological information (Section 11)

### Section 3. Composition/information on ingredients

United States			
Name	CAS number	%	
Lubricating oils, Petroleum, Base oils, Highly refined	Mixture (2)	30 - 50	
Overbased calcium sulfonate complex thickener	Proprietary	20 - 40	
Dec-1-ene, oligomers, hydrogenated	68037-01-4	20 - 40	
Molybdenum sulfide	1317-33-5	3 - 7	
Canada			
Name	CAS number	%	
Lubricating oils, Petroleum, Base oils, Highly refined	Mixture (2)	30 - 50	
Overbased calcium sulfonate complex thickener	Proprietary	20 - 40	
Dec-1-ene, oligomers, hydrogenated	68037-01-4	20 - 40	
Molybdenum sulfide	1317-33-5	3 - 7	

COMPOSITION COMMENTS: (2) The base oil for this product can be a mixture of any of the following highly refined petroleum streams: CAS 64741-88-4; CAS 64741-89-5; CAS 64741-96-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-54-7; CAS 64742-55-8; CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64742-65-0; CAS 72623-83-7; CAS 72623-85-9; CAS 72623-87-1

Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, solvent dewaxing and hydrotreating to remove aromatics and improve performance characteristics. All petroleum base oils contained in this product meet the IP 346 criteria of less than 3 percent PAH's and are not considered carcinogens by IARC, NTP or OSHA.

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.

#### 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. Call medical doctor or poison control center immediately.

### Protection of first-aiders Notes to physician

: Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

# Section 5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

**Extinguishing media** 

**Suitable** 

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Not suitable

: None known.

**Hazardous decomposition** 

products

Decomposition products may include the following materials: carbon dioxide

carbon monoxide sulfur oxides nitrogen 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.

### 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** 

Large 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.

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### Section 8. Exposure controls/personal protection

#### **United States**

Ingredient	Exposure limits
Molybdenum sulfide  Overbased calcium sulfonate complex thickener	ACGIH TLV (United States, 2/2010).  TWA: 10 mg/m³, (as Mo) 8 hour(s). Form: Inhalable fraction.  TWA: 3 mg/m³, (as Mo) 8 hour(s). Form: Respirable fraction; see Appendix C  OSHA PEL (United States, 6/2010).  TWA: 15 mg/m³, (as Mo) 8 hour(s). Form: Total dust  OSHA PEL (United States, 6/2010).  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 exposure limits are recommended: ACGIH TLV TWA: 5 mg/m3; STEL: 10 mg/m3.

#### **Canada**

Occupational exposure li	mits	TWA	(8 hour	s)	STEL	(15 min	s)	Ceilin	g		
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Molybdenum sulfide, as Mo	US ACGIH 2/2010	-	10 3	-	-	-	-	-	-	-	[a] [b]
	AB 4/2009	-	10 3	-	-	-	-	-	-	-	[c]
Molybdenum sulfide	BC 9/2010	-	10 3	-	-	-	  -	-	-	-	[d] [c]
Molybdenum sulfide, as Mo	ON 7/2010	-	10 3	-	-	-	-	-	-	-	[a] [b]
Overbased calcium sulfonate	QC 6/2008 US ACGIH 11/2006	-	10 5	-	-	-	- -	-	-	-	[e]
complex thickener	AB 4/2009 QC 6/2008	- - -	15 10 10	- - -	- - -	- - -	- - -	- - -	-	- - -	[f] [3] [f]

[3]Skin sensitization

Form: [a]Inhalable fraction. [b]Respirable fraction; see Appendix C [c]Respirable [d]Inhalable [e]Respirable fraction [f]Total dust

Under conditions which may generate mists, the following additional exposure limits are recommended: ACGIH TLV TWA: 5 mg/m<sup>3</sup>; STEL: 10 mg/m<sup>3</sup>.

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 eyewash 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

: Not required under normal conditions of use. 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. Ensure a MSHA/NIOSH-approved respirator or equivalent is used.

Hands	<ul> <li>Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex).</li> </ul>
Eyes	: Safety eyewear should be used when there is a likelihood of exposure. 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

Physical state: Grease.Odor: Mild. (Faint.)Color: Gray. [Dark]pH: Not available.Flash point: Open cup: 226.6°C (439.9°F) [Cleveland.]Auto-ignition: Not available.

temperature

Flammable limits : Not available.

Melting point/ : Not available.

Pour point

Boiling point : Not available. Vapor pressure : <0.0013 kPa (<0.01 mm Hg)

[50°C]

Relative density : 0.96 Vapor density : >5 [Air = 1]

Volatility : Not available. Evaporation rate : <1 (butyl acetate = 1)

Viscosity : Not available. Solubility : Insoluble

# Section 10. Stability and reactivity

Chemical stability : The product is stable.Conditions to avoid : No specific data.

Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials and acids.

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

**Possibility of hazardous**: Under normal conditions of storage and use, hazardous reactions will not occur. reactions

**Hazardous polymerization**: 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
Molybdenum sulfide	LC50 Inhalation Vapor	Rat	>2820 mg/m3	4 hours

**Chronic toxicity**: No specific data.

# **Section 12. Ecological information**

# Environmental effects

Not established

**Aquatic ecotoxicity** 

Product/ingredient name	Result	Species	Exposure
Benzenesulfonic acid, C10-16-alkyl derivs.	Acute EC50 5.65 mg/L Fresh water	Daphnia - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
Overbased calcium sulfonate complex thickener	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
U.S. Federal regulations

: Irritating material

: TSCA 4(a) final test rules: Diphenylamine

TSCA 8(a) PAIR: Diphenylamine

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: Overbased calcium sulfonate complex

hickener

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Overbased calcium sulfonate complex thickener: Immediate (acute) health hazard Clean Air Act (CAA) 112 accidental release prevention: No products were found.

#### **State regulations**

Massachusetts: The following components are listed: Molybdenum sulfide

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

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#### California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name Cancer Reproductive No significant risk Maximum

triame <u>Cancer Reproductive No significant risk Maximum</u> level <u>acceptable dosage</u>

level

Quartz Yes. No. No. No.

**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**: None of the components are listed.

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 : 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: All components are listed or exempted.

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

Philippines inventory (PICCS): Not determined.

### Section 16. Other information

#### **United States**

Label requirements : CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED

THROUGH SKIN OR IF SWALLOWED.

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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