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## **AMSOIL Material Safety Data Sheet**

## Section 1: Product and Company Identification

Manufacturer: AMSOIL, Inc. Telephone:

925 Tower Avenue CHEMTREC (Spill Emergency Only): 1-800-424-9300

Superior, WI 54880 Information: 715-392-7101

#### Section 2: Composition/Information on Ingredients

Component	CAS#	Weight%
Lubricating Oils, Petroleum Base Oils, Highly Refined	Mixture **(2)	30-50%
Overbased Calcium Sulfonate Complex Thickener	Proprietary	20-40%
1-Decene, Homopolymer, Hydrogenated		
(Common Name: Medium Polyalphaolefins)	68037-01-4	20-40%
*Molybdenum Sulfide (MoS2)		

<sup>\*</sup>This chemical(s) is hazardous according to OSHA/WHIMIS criteria

Composition Comments: Refer to section 8 for exposure limits on ingredients. Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially.

#### Section 3: Hazards Identification

POTENTIAL HEALTH EFFECTS: Minor eye, inhalation and skin irritant.

\*See Section 11 for toxicological information.

#### Section 4: First Aid Measures

EYE: Rinse with water. Contact physician if discomfort continues.

SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any

discomfort continues.

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms of high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate

extent of injury.

INHALATION: Remove exposed person to fresh air at once. If breathing is labored give oxygen. Get medical

attention if any discomfort continues.

INGESTION: DO NOT INDUCE VOMITING! Get medical attention immediately. If vomiting does occur, lean

forward to reduce risk of aspiration.

#### Section 5: Fire Fighting Measures

FLAMMABILITY PROPERTIES: Flash Point .......440°F(227°C)

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<sup>\*\* (2)</sup> The base oils 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 64741-95-3; CAS 64741-96-4; CAS 64741-97-5; CAS 694742-01-4; 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 64742-56-9; CAS 72623-83-7; 72623-86-0. 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 DMSO extractable PAH's and are not considered carcinogens by IARC, NTP or OSHA.

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite

SPECIAL FIREFIGHING

PROCEDURES: Use water to keep fire exposed containers cool and disperse vapors. Water spray may be

used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of

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sewers and water sources. Dike for water control.

**UNUSUAL FIRE &** 

EXPLOSIVE HAZARDS: Volume and pressure increase strongly when heated. Risk of container explosion in fire.

HAZARDOUS COMBUSTION

PRODUCTS: Acrid smoke/fumes. Oxides of: Carbon. Phosphorus. Sulfur

PROTECTIVE MEASURES

IN CASE OF FIRE: Full bunker gear recommended including a positive pressure self-contained breathing

apparatus.

Section 6: Accidental Release Measures

PERSONAL PERCAUTIONS: Minimize skin contact. Avoid breathing vapors. Wear an appropriate respirator if

exposure exceeds recommended guidelines. Remove sources of ignition. Wear

suitable eye protection.

PRECAUTIONS TO PROTECT

THE ENVIRONMENT: Keep product out of sewers and watercourses by diking or impounding. Advise

authorities if product has entered or may enter sewers, watercourses or extensive land

areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURE: Provide good ventilation. Use appropriate protective clothing. Carefully collect spilled

material in closed containers and leave for disposal according to local regulations. Do

not let water contaminate ponds or waterways. Rinse area with water.

Section 7: Handling and Storage

HANDLING PRECAUTION: Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors.

Use approved respirator if air contamination is above accepted level. Containers should be kept tightly closed. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the

STORAGE PRECAUTION: Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing

work place. HANDLING DESCRIPTION: Prevent small spills and leakages to avoid slip hazard.

materials. STORAGE CRITERIA: Chemical storage

#### Section 8: Exposure Controls/Personal Protection

Component	STD	TWA	STLE	TWA	STEL		
Lubricating Oils, Petroleum, Base Oils	OSHA			5 mg/m <sup>3</sup> as oil mist	mg/m <sup>3</sup> as oil mist		
Highly Refined	ACGIH			5 mg/m <sup>3</sup> as nuisance dust mg/m <sup>3</sup> as oil mist	40 mg/m <sup>3</sup> as nuisance dust mg/m <sup>3</sup> as oil mist		
Overbased Calcium Sulfonate Complex Thickener	OSHA	15 mg/m3 (total)	as CaCO3	5 mg/m3 (resp) as MO	as CaCO3		
	ACGIH	1mg/m3 (inh)	NIC 2005	10 mg/m3 **(e)	as CaCO3		
	OSHA			N/E	_		
Molybdenum Sulfide (MoS2)	ACGIH	3 mg/m3 (resp) as Mo		10 mg/m3 (ihl) as Mo			

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ENGINEERING CONTROLS: Using engineering controls to reduce air contamination to permissible exposure level.

VENTILATION: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

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RESPIRATORY: No specific recommendation made, but respiratory protection may still be required under exceptional

circumstances when excessive air contamination exists.

PROTECTIVE GLOVES: Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves

made of: Neoprene, nitrile, polyethylene or PVC.

PROTECTIVE CLOTHING: Wear appropriate clothing to prevent repeated or prolonged skin contact.

EYE PROTECTION: Use splash goggles or face shield where splashing is expected or can occur.

HYGIENIC WORK PRACTICES: Wash at the end of each work shift and before eating, smoking and using the toilet.

### Section 9: Physical and Chemical Properties

Grease
<0.1 mmHg
>5
< 1
< 0.1 wt%
Insoluble
0.9600
Negligible
Unknown
Essentially Neutral
Not Determined
Mild or faint
Not Determined
Dark Grey

#### Section 10: Stability and Reactivity

STABILITY: Normally stable

INCOMPATIBILITY: Avoid contact acids with oxidizing substances.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION OF PRODUCT: Oxides of: Carbon, Phosphorus, Sulfur

#### Section 11: Toxicological Information

### **ACUTE EXPOSURE**

Eye Irritation: Might be slightly irritating to eyes

Skin Irritation: Prolonged or repeated skin contact as from clothing wet with material may cause

dermatitis. Symptoms may include redness, edema, drying, defatting, and cracking of the

skin.

Respiratory Irritation: Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

Heating can generate vapors that may cause respiratory irritation, nausea and headaches.

Ingestion Irritation: May cause stomach pain or vomiting.

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CHRONIC EXPOSURE

Carcinogenicity: IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed

Teratogenicity: No Known Information

HEALTH WARNINGS: INHALATION: Heating can generate vapors that may cause respiratory irritation, nausea

and headaches. In halation hazard at room temperature is unlikely due to the low volatility of this product. SKIN CONTACT: Repeated or prolonged contact can result in drying of the skin. EYE CONTACT: Slightly irritating INGESTION: Can cause stomach ache and

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vomiting

ROUTE OF ENTRY: Inhalation, Skin and/or eye contact, ingestion

TOXICOLOGICAL INFORMATION: No experimental toxicological data on the preparation as such is available.

COMPONENT: LUBRICATING OILS, PETROLEUM, BASE OILS, HIGHLY REFINED

TOXICOLGICAL DATA Carcinogenicity IP 346 <3% TOXIC DOSE – LD 50 > 5000 mg/kg (oral rat) >2000 mg/kg (skn rbt)

TOXIC CONC - LC50 > No information available (NIA)

COMPONENT OVERBASED CALCIUM SUFONATE COMPLEX THICKENER

TOXIC DOSE – LD 50 >2000 (estimated) mg/kg (oral rat)

TOXIC DOSE – LD 50 SKIN > 2000 mg/kg (skn rbt)
TOXIC CONC. – LC 50 >0.5 (estimated mg/l (inh-rat)

COMPONENT 1-DECENE, HOMOPOLYMER, HYDROGENATED (COMMON NAME: MEDIUM

**POLYALPHAOLEFINS** 

TOXIC DOSE – LD 50 > 2000 (estimated) mg/kg (oral rat)

TOXIC DOSE – LD 50 SKIN > 2000 mg/kg (skn rbt)

TOXIC CONC. - LC 50 > 5 mg/l

Section 12: Ecological Information

No data available on the adverse effects of this product on the environment.

Section 13: Disposal Considerations

Spilled material, unused contents and empty containers must be disposed of in accordance with local, state, and federal regulations.

3. ....

Section 14: Transport Information

DOT HAZARD CLASS: Not Regulated

TDGR CLASS Not Regulated

SEA TRANSPORT NOTES: Not regulated per IMDG

AIR TRANSPORT NOTES: Not regulated per IATA

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#### Section 15: Regulatory Information

U.S.	Federal	Regula	ations
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Component			SARA 302		CLA	SARA	313		
Overbased Calcium Sulfonate Complex Thickener		ľ	No	o No		No			
1-Decene, Homopolymer, Hydrogenated (Common Name	1-Decene, Homopolymer, Hydrogenated (Common Name: Medium		No No		)	No			
Polyalphaolefins)									
Molybdenum Sulfide (MoS2)		1	No	No	)	No			
Lubricating Oils, Petroleum, Base Oils, Highly Refined		1	No	No No		No			
	4 4								
	an Air Act								
Component		CAA A	.ccidental	Release	Preventi	on			
Lubricating Oils, Petroleum, Base Oils, Highly Refined		No							
Overbased Calcium Sulfonate Complex Thickener		No							
SARA Hazard Categories	lone								
US State Regulations									
	<u> </u>			NANI	NI I	DΛ	DI		
Component	CA	MA	FL	MN	NJ	PA	RI		
Lubricating Oils, Petroleum, Base Oils, Highly Refined	No	No	No	No	No	Yes	No		
Overbased Calcium Sulfonate Complex Thickener	No	No	No	No	No	No	No		
Molybdenum Sulfide (MoS2)					Yes				
· ,									

**STATE REGULATORY STATUS: CALIFORNIA PROPOSITION 65:** This product contains the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer, and for which warnings are now require:

Crystalline silica, cancer hazard, CAS# 14808-60-7, 32 ppm

**WORPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM – WHMIS:** WHIMIS NOT CONTROLLED: 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. Not a controlled product.

Risk Phrases: R-22 Harmful if swallowed.

R-36/37/38 Irritating to eyes, respiratory system and skin.

R-51/53 Toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment.

	Clabal In								
Global Inventories									
Component	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN	
Lubricating Oils, Petroleum, Base Oils, Highly Refined	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes	
Overbased Calcium Sulfonate Complex Thickener	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes	
1-Decene, Homopolymer, Hydrogenated (Common Name: Medium Polyalphaolefins)	DSL	Yes	Polymer	Yes	Yes	Yes	Yes	Yes	
Molybdenum Sulfide (MoS2)	DSL	Yes	<b>EINECS</b>	Yes	PRTR1	Yes	Yes	Yes	
CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA)									

USA (TSCA)

All Components in this product are listed on the US Toxic Substances Control

Act (TSCA) Inventory or are exempt from TSCA Inventory requirements.

CANADA (DSL)

All components in this product are listed on the Canada Domestic Substance List

(DSL) or are exempt from DSL requirements.

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EUROPE (EINECS/ELINCS/NLP)

All Components in this product are listed on the European Inventory of New and

Existing Chemical Substances (EINECS), the European List of Notified Chemical Substances (ELINCS), or the No Longer Polymers (NLP) list, or are exempt from

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EU listing requirements.

JAPAN (ENCS)

All components in this product are listed on the Japan Inventory of Existing and

New Chemical Substances (ENCS) or are exempt from ENCS requirements.

PHILIPPINES (PICCS)

All components in this product are listed on the Philippines Inventory of Chemical

Substances (PICCS) or are exempt from PICCS requirements.

AUSTRALIA (AICS)

All components in this product are listed on the Australian inventory of Chemical

Substances (AICS) or are exempt from AICS requirements.

KOREA (ECL)

All components in this product are listed on the Korea Existing Chemicals (ECL)

or are exempt from ECL requirements

CHINA (IECS)

All Components in this product are listed on the China Inventory of Existing

Chemical Substances (IECS) or are exempt from IECS requirements.

Section 16: Other Information

NFPA-HMIS HAZARD RATING

HEALTH Irritation, minor residual injury (1) – HMIS/NFPA

FLAMMABILITY Burns only if pre-heated (1) - HMIS/NFPA

REACTIVITY Normally Stable (0) - HMIS/NFPA

NCPA HMIS HAZARD INDEX Slight! Slightly Toxic – May cause slight irritation (1)

PERSONAL PROTECTION INDEX B – Safety Eyewear and Gloves

NPCA HMIS FLAMMABLITY INDEX Burns only if pre-heated (1)

Tariff Code (Schedule B) 3403.19.0000 Lubricating preparations (including cutting-oil preparations, bolt or

nut release preparations, antirust or anti corrosion preparations and mold release preparations, based on lubricants) and preparations of a kind used for the oil or grease treatment of textile materials, leather, furskins or other materials, but excluding preparations containing, as basic constituents, 70 percent or more by weight of petroleum oils or oils obtained from bituminous materials: Containing

petroleum oils or oils obtained from bituminous materials: Others

The information and recommendations contained herein are, to the best of AMSOIL's knowledge and belief, accurate and reliable as of the date issued. AMSOIL makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and AMSOIL shall not be liable for any loss or damage based upon the criteria supplied by the developers of these rating systems, together with AMSOIL's interpretation of the available data.

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