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# SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): Form Oil 70  
 Product Code(s): 846401081  
 Uses: A petroleum-based lubricant.  
 Company: Amalie Oil Company  
 Address: 1601 McCloskey Blvd; Tampa FL 33605; USA  
 Telephone Number: (813) 248-1988 Fax Number: (813) 248-1488  
 Emergency Telephone Number: For Hazardous Materials [or Dangerous Goods] Incident (24 hours/day)  
 ChemTel Inc. (800) 255-3924; +1 (813) 248-0585  
 Date Issued: March 29, 2019 Date Revised: March 29, 2020

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

## SECTION 2 HAZARDS IDENTIFICATION

GHS Signal Word: **DANGER**



GHS Classification: Aspiration Hazard (Category 1)

GHS Hazard Statements: May be fatal if swallowed and enters airways

GHS Precautionary Statements:

Prevention:  
None.

Response:

If swallowed: Immediately call a poison center/ doctor/hospital.

Do NOT induce vomiting.

Storage:  
Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified: None.

GHS Assessment: Approximately < 1% of this mixture consists of ingredient(s) of unknown acute toxicity.  
Approximately < 1% of the mixture consists of ingredient(s) of unknown hazards to the

**SECTION 2 HAZARDS IDENTIFICATION**

aquatic environment.

**SECTION 3 COMPOSITION / INGREDIENTS**

Component	CAS Number	EC Number	Concentration
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	5.0 - 20.0%
	<i>Classification: Carc. 1B: H350 (*)            Carc. 1B; H350: C ≥ 3.0 % DMSO            Repr. 2; H361d: C ≥ 3.0 % DMSO            Asp. Tox. 1; H304: Viscosity ≤ 20.5 mm<sup>2</sup>/s (40°C)</i>		
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	75.0 - 95.0%
	<i>Classification: Carc. 1B: H350 (*)            Carc. 1B; H350: C ≥ 3.0 % DMSO            Repr. 2; H361d: C ≥ 3.0 % DMSO            Asp. Tox. 1; H304: Viscosity ≤ 20.5 mm<sup>2</sup>/s (40°C)</i>		

Note (\*): Components are highly refined and this hazard does not apply.

Other components are either non-hazardous or do not significantly contribute to the hazards of the product.

Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4 FIRST AID MEASURES**

First Aid - Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.
First Aid - Skin:	In case of contact, flush skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention immediately if irritation develops and/or persists. Wash contaminated clothing before reuse.
First Aid - Ingestion:	If swallowed and feel unwell, immediately call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
First Aid - Inhalation:	If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.
Important Symptoms / Effects – Acute and Delayed:	Mild tissue inflammation, nausea, breathing difficulties, coughing.
Advice to Physician:	Treat symptomatically.

**SECTION 5 FIRE FIGHTING MEASURES**

Extinguishing Media:	Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.
Specific Hazards:	This product is not flammable, but will burn in a fire. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.

**SECTION 5 FIRE FIGHTING MEASURES**

Protective equipment and procedures for fire-fighters. Wear full protective clothing and self-contained breathing apparatus.

Additional Advice: None.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Spill Procedures: Small spills: Wipe up spills with an absorbent towel/material and transfer into suitable containers for recovery or disposal. Finally flush area with water/soap or an appropriate solvent, as this product is not appreciably soluble in water alone.

Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers.

Personal Precautions: Wear suitable protective clothing and equipment.

Environmental Precautions: Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

**SECTION 7 HANDLING AND STORAGE**

Handling: Wear appropriate personal protection (See Section 8) when handling this material. The work area should be equipped with a safety shower and eye wash station. If exposed to the liquid, avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapors, mists or sprays. Use in a well-ventilated area.

Storage: Keep container(s) tightly closed. Use and store this material at room temperature away from sources of ignition, heat, direct sunlight and hot metal surfaces. Keep away from any incompatible materials (see Section 10).

Additional Advice: Store in original container. Store as directed by the manufacturer.

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Occupational Exposure Standards: Exposure limits are listed below, if they exist.

Distillates (petroleum), hydrotreated light naphthenic: (as petroleum distillates – naphtha)  
 NIOSH REL: 350 mg/m<sup>3</sup> TWA.  
 NIOSH REL: 1800 mg/m<sup>3</sup> STEL.  
 OSHA PEL: 500 ppm (2000 mg/m<sup>3</sup>).  
 (as oil mist)  
 NIOSH REL: 5 mg/m<sup>3</sup> TWA.  
 NIOSH STEL: 10 mg/m<sup>3</sup> TWA.  
 OSHA PEL: 5 mg/m<sup>3</sup> TWA.

Distillates (petroleum), hydrotreated light paraffinic: (as petroleum distillates – naphtha)  
 NIOSH REL: 350 mg/m<sup>3</sup> TWA.  
 NIOSH REL: 1800 mg/m<sup>3</sup> STEL.  
 OSHA PEL: 500 ppm (2000 mg/m<sup>3</sup>).  
 (as oil mist)  
 NIOSH REL: 5 mg/m<sup>3</sup> TWA.  
 NIOSH STEL: 10 mg/m<sup>3</sup> TWA.  
 OSHA PEL: 5 mg/m<sup>3</sup> TWA.

Engineering Control Measures: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

Respiratory Protection: A NIOSH certified self-contained breathing apparatus or air purifying

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

	respirator with an organic cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits.
Hand Protection:	The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability).
Eye Protection:	Approved eye protection (safety glasses with side-shields or goggles) to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
Body Protection:	Impervious clothing should be worn as needed to prevent skin contact.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid
Color:	Light to dark amber
Odor:	Characteristic
Odor Threshold:	Not available.
pH:	Not available.
Melting Point/Range (°C/°F):	-12°C / 10.4°F (pour point)
Boiling Point/Range (°C/°F):	> 200°C / 392°F (based on constituents)
Flash Point (PMCC) (°C/°F):	180°C / 356°F
Evaporation Rate:	Not available.
Flammability / Explosivity Limits in Air (%):	Not available.
Vapor Pressure:	< 0.075 mmHg (20°C) (based on constituents)
Vapor Density (Air = 1):	Not available.
Relative Density:	0.845 g/cm <sup>3</sup> (15.6°C)
Solubility in Water:	Insoluble
Partition Coefficient:	Not available.
Autoignition Temperature (°C/°F):	Not available.
Decomposition Temperature (°C/°F):	Not available.
Viscosity:	15 mm <sup>2</sup> /s (40°C)
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	820 - 845 g/l (as defined by 40CFR51.100)

**SECTION 10 STABILITY AND REACTIVITY**

Reactivity:	Product will not undergo additional reaction.
Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat.
Incompatibilities:	Strong oxidizing agents.
Hazardous Decomposition	Oxides of carbon, aliphatic compounds, toxic by-products.

**SECTION 10 STABILITY AND REACTIVITY**

Products:

**SECTION 11 TOXICOLOGICAL INFORMATION***If available, toxicity data for the product is given; otherwise component data is listed.*

Acute Toxicity:	This product is not expected to be appreciably toxic. (Distillates (petroleum), hydrotreated light naphthenic) Oral LD50 (rat) > 5000 mg/kg (similar oil); Dermal LD50 (rat) > 5000 mg/kg (similar oil); Inhalation LC50 (rat) 2.18 mg/l (4 hr) (aerosol – similar oil) (Distillates (petroleum), hydrotreated light paraffinic) Oral LD50 (rat) > 5000 mg/kg (similar oil); Dermal LD50 (rat) > 5000 mg/kg (similar oil); Inhalation LC50 (rat) 2.18 mg/l (4 hr) (aerosol – similar oil)
Skin Corrosion / Irritation:	The product may be slightly irritating to the skin. (Distillates (petroleum), hydrotreated light naphthenic) Slightly irritating to skin (rabbit – similar oil). (Distillates (petroleum), hydrotreated light paraffinic) Mildly irritating to skin (rabbit – similar oil).
Serious Eye Damage / Irritation:	The product may be slightly irritating to the eyes. (Distillates (petroleum), hydrotreated light naphthenic) Slightly irritating to eye (rabbit – similar oil). (Distillates (petroleum), hydrotreated light paraffinic) Slightly irritating to eye (rabbit – similar oil).
Respiratory or Skin Sensitization:	The product is not expected to be dermally sensitizing. (Distillates (petroleum), hydrotreated light naphthenic) Not dermally sensitizing (guinea pig – similar oil). (Distillates (petroleum), hydrotreated light paraffinic) Not dermally sensitizing (guinea pig – similar oil).
Mutagenicity:	This product is not expected to be mutagenic. (Distillates (petroleum), hydrotreated light naphthenic) Not mutagenic (Ames test, in vitro mammalian chromosome aberration test, mammalian cell gene mutation assay and micronucleus assay – similar oils). (Distillates (petroleum), hydrotreated light paraffinic) Not mutagenic (Ames test, in vitro mammalian chromosome aberration test, mammalian cell gene mutation assay and micronucleus assay – similar oils).
Carcinogenicity:	This product is not expected to be carcinogenic. (Distillates (petroleum), hydrotreated light naphthenic) In a 78 week study in mice by dermal application (0.25 ml dose rate applied once or twice a week), it was shown that there was no carcinogenic potential in sufficiently refined oil. Not classified as to carcinogenicity to humans (IARC – Petroleum solvents). (Distillates (petroleum), hydrotreated light paraffinic) In a 78 week study in mice by dermal application (0.25 ml dose rate applied once or twice a week), it was shown that there was no carcinogenic potential in sufficiently refined oil. Not classified as to carcinogenicity to humans (IARC – Petroleum solvents).
Reproductive / Developmental Toxicity:	This product is not expected to be reproductively or developmentally harmful. (Distillates (petroleum), hydrotreated light naphthenic) In dermally-exposed rats at up to 1000 mg/kg/day during gestation, the developmental NOAEL was determined to be 125 mg/kg/day based on decreased fetal body weights and skeletal anomalies at the highest dose (similar oil). (Distillates (petroleum), hydrotreated light paraffinic) In dermally-exposed rats at up to 1000 mg/kg/day during gestation, the developmental NOAEL was determined to be 125 mg/kg/day based on decreased fetal body weights and skeletal anomalies at the highest dose (similar oil).

**SECTION 11 TOXICOLOGICAL INFORMATION**

Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	(Distillates (petroleum), hydrotreated light naphthenic) No data. (Distillates (petroleum), hydrotreated light paraffinic) No data.
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure:	(Distillates (petroleum), hydrotreated light naphthenic) In a 13-week oral study in rats at up to 500 mg/kg/day, the LOAEL was 125 mg/kg/day based on organ weight changes, reddening/discoloration of organs and atrophy in male sex organs (similar oil). (Distillates (petroleum), hydrotreated light paraffinic) In a 13-week oral study in rats at up to 500 mg/kg/day, the LOAEL was 125 mg/kg/day based on organ weight changes, reddening/discoloration of organs and atrophy in male sex organs (similar oil).
Aspiration Hazard:	This product poses an aspiration hazard. It may cause chemical pneumonitis, which can be fatal.
Additional Information:	None.

**SECTION 12 ECOLOGICAL INFORMATION**

*If available, ecological data for the product is given; otherwise component data is listed.*

Acute Ecotoxicity:	This product is not expected to be appreciably harmful to aquatic species. (Distillates (petroleum), hydrotreated light naphthenic) LL50 (fathead minnow) > 100 mg/l/96 hr; EL50 (Daphnia magna) > 10000 mg/l/48 hr; NOEL (algae) ≥ 100 mg/l/72 hr. (Distillates (petroleum), hydrotreated light paraffinic) LL50 (fathead minnow) > 100 mg/l/96 hr; EL50 (Daphnia magna) > 10000 mg/l/48 hr; NOEL (algae) ≥ 100 mg/l/72 hr.
Mobility:	(Distillates (petroleum), hydrotreated light naphthenic) Not expected to be mobile in soil. (Distillates (petroleum), hydrotreated light paraffinic) Not expected to be mobile in soil.
Persistence/Degradability:	(Distillates (petroleum), hydrotreated light naphthenic) Inherently biodegradable (31% in 28 days). (Distillates (petroleum), hydrotreated light paraffinic) Inherently biodegradable (31% in 28 days).
Bioaccumulation:	(Distillates (petroleum), hydrotreated light naphthenic) No data. (Distillates (petroleum), hydrotreated light paraffinic) No data.
Other adverse effects:	None.

**SECTION 13 DISPOSAL CONSIDERATION**

Environmental precautions:	Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.
Product Disposal:	Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.
Container Disposal:	Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

**SECTION 14 TRANSPORT INFORMATION**

## DOT (US):

Proper Shipping Name:	Not regulated
UN Number:	None.
Class:	None.
Packaging Group:	None.
Reportable Quantity:	None.
Marine Pollutant:	None.

## IATA:

Proper Shipping Name:	Not regulated
UN Number:	None.
Class:	None.
Packing Group:	None.

## IMDG:

Proper Shipping Name:	Not regulated
UN Number:	None.
Class:	None.
Packing Group:	None.
Marine Pollutant:	None.

*Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.*

**SECTION 15 REGULATORY INFORMATION**

US Toxic Substance Control Act:	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian Domestic Substance List:	All components of this product are listed on the Canadian Domestic Substance List.
EU REACH:	All components of this product have been pre-listed or registered under REACH.
TSCA Sec.12(b) Export Notification:	This product does not contain a chemical at or above de minimis concentrations which requires reporting.
Canadian WHMIS Classification:	None.  This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.
Massachusetts Right-To-Know:	This product contains materials subject to disclosure under the Massachusetts Right-To-Know Law: - Distillates (petroleum), hydrotreated light naphthenic (as petroleum distillates) - Distillates (petroleum), hydrotreated light paraffinic
New Jersey Right-To-Know:	This product contains materials subject to disclosure under the New Jersey Right-To-Know Law: - Distillates (petroleum), hydrotreated light naphthenic (as petroleum

**SECTION 15 REGULATORY INFORMATION**

	distillates) - Distillates (petroleum), hydrotreated light paraffinic (as petroleum distillates)
Pennsylvania Right-To-Know:	This product contains materials subject to disclosure under the Pennsylvania Right-To-Know Law: - Distillates (petroleum), hydrotreated light naphthenic (as petroleum distillates) - Distillates (petroleum), hydrotreated light paraffinic (as petroleum distillates)
California Proposition 65:	This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.
SARA TITLE III-Section 311/312 Categorization (40 CFR 370):	Immediate (acute) hazard (as of 2018, the EPA has adopted GHS hazard classifications)
SARA TITLE III-Section 313 (40 CFR 372):	This product does not contain materials which are listed in Section 313 at or above de minimis concentrations.
CERCLA Hazardous Substance (40 CFR 302)	This product does not contain materials subject to reporting under CERCLA and Section 304 of EPCRA.
Water Hazard Class (WGK):	This product is slightly water-endangering (WGK=1).
Other Chemical Inventories:	Australia (AICS): All components of this product are listed. China (IECSC): All components of this product are listed. Japan (ENCS): All components of this product are listed. Korea (KCI): All components of this product are listed. Philippines (PICCS): All components of this product are listed. Taiwan (TCSI): All components of this product are listed.

**SECTION 16 OTHER INFORMATION**

NFPA Rating - HEALTH:	1		
NFPA Rating - FIRE:	1		
NFPA Rating - REACTIVITY:	0		
NFPA Rating - SPECIAL:	NONE		
Full text of H-Statements referred to under Section 3:			
H304	May be fatal if swallowed and enters airways		
H350	May cause cancer		
H361	Suspected of damaging fertility or the unborn child		
SDS Date Issued:	March 29, 2019		
SDS Current Version:	1.0	Version Date:	March 29, 2019
SDS Revision History:	v1.0 Initial version.		
Abbreviations:	GHS: Globally Harmonized System of Classification and Labeling of Chemicals CAS#: Chemical Abstract Services Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration NFPA: National Fire Protection Association		



**SECTION 16 OTHER INFORMATION**

DOT: US Department of Transportation  
 RCRA: US Resource Conservation and Recovery Act  
 TLV: Threshold Limit Value TWA:  
 Time-Weighted Average  
 PEL: Permissible Exposure Limit  
 STEL: Short Term Exposure Limit  
 WEEL: Workplace Environmental Exposure Levels  
 AIHA: American Industrial Hygiene Association  
 NTP: National Toxicology Program  
 IARC: International Agency for Research on Cancer  
 LD50: Lethal Dose 50%  
 LC50: Lethal Concentration 50%  
 NOAEL: No Observed Adverse Effect Level  
 NOEL: No Observed Effect Level  
 EC50: Effective Concentration 50%  
 LL50: Lethal Loading Rate 50%  
 BCF: Bioconcentration Factor  
 BOD: Biological Oxygen Demand  
 Koc: Soil Organic Carbon Partition Coefficient.  
 TIm: Median Tolerance Limit

Key References: United States National Library of Medicine's TOXNET  
 Patty's Toxicology, 5<sup>th</sup> Edition  
 European Commission's Institute for Health and Consumer Protection  
 European Chemicals Agency (ECHA)  
 American Conference of Governmental Industrial Hygienists  
 International Agency for Research on Cancer  
 United States National Toxicology Program  
 United States Occupational Safety and Health Administration  
 United States Department of Transportation  
 Supplier Material Safety Data Sheets

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