





**IDEMITSU**

# SAFETY DATA SHEET

<b>Product Name:</b>	<b>PPE</b>
Idemitsu Full Synthetic Eng. Oil SAE 5W-20, 12 x 1 Quart Cse	 

Revision Date: 18-Oct-2016

Revision Number: 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Product Name:** Idemitsu Full Synthetic Eng. Oil SAE 5W-20, 12 x 1 Quart Cse

### Other means of identification

**Product Code:** 30010091-75000C020

**Synonyms** Not available

### 1.2 Recommended use of the chemical and restrictions on use

**Recommended Use** Lubricant

**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

**Manufactured by** Idemitsu Lubricants America Corporation, 701 Port Rd., Jeffersonville, IN. 47130 Telephone: 812-285-8234, Fax: 812-285-8243, Contact Name: Robin Hutchens, Email: sds@ilacorp.com

**24 Hour Emergency Phone Number:** Within USA and Canada: 1 800-424-9300  
Outside USA and Canada: + 1 703-741-5970 (collect calls accepted)

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification

This material is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS 2015

Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Not classified
Acute toxicity - Inhalation (Gases)	Not classified
Acute toxicity - Inhalation (Vapors)	Not classified
Acute toxicity - Inhalation (Dusts/Mists)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Not classified
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration toxicity	Not classified
Physical hazards	None

### 2.2. Label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Hazards not otherwise classified (HNOC)** Not applicable

### 2.3 Other information

**Other hazards**

- May be harmful in contact with skin
- Harmful to aquatic life with long lasting effects

**Unknown acute toxicity** 6.32 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

#### Non-Hazardous Components

Chemical Name	CAS No.	Weight-%
Lubricating Base Stocks	Mixture	85-95

## 4. FIRST AID MEASURES

### 4.1 4.1 First Aid Measures

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<b>General Advice</b>	If symptoms persist, call a physician. Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Do not induce vomiting without medical advice. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Call a physician or poison control center immediately.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with eyes, skin and clothing.

**4.2 4.2 Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**4.3 4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Flammable Properties** NFPA: Class IIIB Combustible Liquid

**5.1 Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.

**5.2 Specific Hazards Arising from the Chemical** Keep product and empty container away from heat and sources of ignition.

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and / or irritating. Combustion products may include and are not limited to:  
Carbon oxides  
Calcium Oxides (CaOx)  
Hydrogen Sulfide  
Nitrogen oxides (NOx)  
Oxides of Phosphorus  
Sulphur oxides  
Zinc oxides

**5.3 Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with the skin and the eyes. Use personal protective equipment. Remove all

sources of ignition. Avoid breathing vapors or mists. Ensure adequate ventilation.

## 6.2 Environmental Precautions

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## 6.3 Methods and material for containment and cleaning up

**Methods for Clean-up** Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## Spill Management

**LARGE SPILLS** Eliminate sources of ignition. Prevent additional discharge of material if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 Regulatory Information) notify the National Response Center.

**WATER SPILLS** Prevent liquid entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Recover by pumping or with suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

## **7. HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

**Handling** Wear personal protective equipment. Do not breathe vapors or spray mist. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

**Safe Handling Advice** Handle in accordance with good industrial hygiene and safety practices.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage** Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place.

**Technical measures/Precautions** Ensure adequate ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

**Incompatible Materials and/or Coatings** No information available

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

**Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Other Exposure Guidelines (If Generated)**

Chemical Name	OSHA PEL	ACGIH TLV	ACGIH OEL (STEL)	NIOSHT REL TWA	ILA IHG	ILA ROEG	ILA Internal Exposure Limit
Oil mist, mineral	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>		TWA 5 mg/m <sup>3</sup> ST 10 mg/m <sup>3</sup>			
Hydrogen sulfide	Ceiling: 20 ppm	TWA: 1 ppm STEL: 5 ppm	5 ppm				

**8.2 Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal Protective Equipment**

**Eye/face protection**

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If splashes are likely to occur wear tight fitting safety goggles and/or face-shield.

**Skin protection**

Wear protective gloves/clothing. Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. **Glove Type:** Neoprene, Nitriles

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**

When using, do not eat, drink or smoke. Clean equipment, work area and clothing regularly.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

Appearance	Amber / Light Brown
Physical State	Liquid
Odor	Characteristic
Odor Threshold	No information available
pH	Not applicable
Melting point / melting range	Not applicable
Boiling point / boiling range	No information available
Flash Point	232 °C / 450 °F COC ASTM D92
Evaporation Rate	No information available
Flammability Limit in Air	No information available
Explosion Limits	No information available
Vapor Pressure	No information available
Vapor Density (Air)	No information available

Density	0.84 g/cm <sup>3</sup> @15°C
Solubility	No information available
Partition Coefficient (n-octanol/water)	No information available
Autoignition Temperature	No information available
Decomposing Temperature	No information available
Viscosity	@ 40C = 48.34 cSt; @ 100C = 8.503 cSt

Other Information

**10. STABILITY AND REACTIVITY**

10.1 Reactivity

Reactivity The product is chemically stable

10.2 Chemical stability

Chemical Stability Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

10.4 Conditions to Avoid

Conditions to Avoid Heat, flames and sparks.

10.5 Incompatible Materials

Incompatible Materials Strong oxidizing agents.

10.6 Hazardous Decomposition Products

Hazardous decomposition products Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 150F.

**11. TOXICOLOGICAL INFORMATION**

11.1 Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause slight irritation.
Skin Contact	May be harmful in contact with skin.
Ingestion	May be harmful if swallowed.

11.2 Information on toxicological effects

Symptoms No information available

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Not classified.
Serious eye damage/eye irritation	Not classified.

**Sensitization** Not classified.

**Mutagenic effects** Not classified.

#### 11.4 Carcinogenicity

**Carcinogenicity** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, OSHA or ACGIH.

**Legend:**

*NTP (National Toxicology Program) ACGIH (American Conference of Governmental Industrial Hygienists) IARC (International Agency for Research on Cancer) OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive Effects** Not classified.

**STOT - single exposure** Not classified.

**STOT - repeated exposure** Not classified

**Aspiration hazard** Not classified.

#### 11.5 Acute Toxicity

**Unknown acute toxicity** 6.32 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

Product Information (Estimated):

**ATEmix (oral)** > 5,000 mg/kg

**ATEmix (dermal)** > 2,000 mg/kg

**ATEmix (inhalation-dust/mist)** > 5 mg/l

**ATEmix (inhalation-vapor)** > 20 mg/l

## **12. ECOLOGICAL INFORMATION**

#### 12.1 Ecotoxicity

**Ecotoxicity effects**

Harmful to aquatic life with long lasting effects. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

**Unknown aquatic toxicity**

6.64 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

12.2 Persistence and degradability No information available.

12.3 Bioaccumulation/Accumulation No information available

12.4. Mobility in soil No information available

PBT and vPvB assessment No information available

12.5 Other adverse effects: No information available

**13. DISPOSAL CONSIDERATIONS**

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

**Waste Disposal Method** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging** Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT - Non bulk** Not regulated

**DOT - Bulk** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	All ingredients are on the inventory or exempt from listing
<b>DSL</b>	All ingredients are on the inventory or exempt from listing
<b>NDSL</b>	Not Listed
<b>EINECS</b>	Does not comply
<b>ELINCS</b>	Contains an ELINCS substance
<b>ENCS</b>	All ingredients are on the inventory or exempt from listing
<b>CHINA</b>	All ingredients are on the inventory or exempt from listing
<b>KECL</b>	All ingredients are on the inventory or exempt from listing
<b>PICCS</b>	All ingredients are on the inventory or exempt from listing
<b>AICS</b>	All ingredients are on the inventory or exempt from listing
<b>NZIoC</b>	Does not comply

**USA**

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazardous Categorization**

**Acute Health Hazard** No

Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**CERCLA/SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 355.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**State Right-to-Know**

Chemical Name	CAS No.	New Jersey
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	X
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	X
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	X
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	X
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	X

Chemical Name	CAS No.	Massachusetts
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	X
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	X

Chemical Name	CAS No.	Pennsylvania
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	X

**New Jersey Worker and Community Right-to-Know Act:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Lubricating Oil)

**Canada**

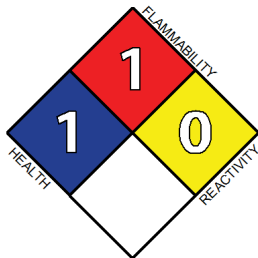
This material has been classified in accordance with the WHMIS 2015 regulation

Chemical Name	CAS No.	Weight-%	NPRI
Petroleum distillates	64742-48-9	1-5	Listed

Legend

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION**



NFPA

Health: 1

Flammability: 1

Instability: 0

Prepared By

Susie Bibb

Revision Date:

18-Oct-2016

Revision Summary:

Review  
Chronic Aquatic Hazard  
Unknown acute toxicity

**Disclaimer:**



The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**



**IDEMITSU**

# SAFETY DATA SHEET

<b>Product Name:</b>	<b>PPE</b>	
<b>Idemitsu Full Synthetic Eng. Oil SAE 5W-20, 4 x 5 Quart Cse</b>		

Revision Date: 18-Oct-2016

Revision Number: 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Product Name:** Idemitsu Full Synthetic Eng. Oil SAE 5W-20, 4 x 5 Quart Cse

### Other means of identification

**Product Code:** 30010091-95300C020

**Synonyms** Not available

### 1.2 Recommended use of the chemical and restrictions on use

**Recommended Use** Lubricant

**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

**Manufactured by** Idemitsu Lubricants America Corporation, 701 Port Rd., Jeffersonville, IN. 47130 Telephone: 812-285-8234, Fax: 812-285-8243, Contact Name: Robin Hutchens, Email: sds@ilacorp.com

**24 Hour Emergency Phone Number:** Within USA and Canada: 1 800-424-9300  
Outside USA and Canada: + 1 703-741-5970 (collect calls accepted)

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification

This material is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS 2015

Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Not classified
Acute toxicity - Inhalation (Gases)	Not classified
Acute toxicity - Inhalation (Vapors)	Not classified
Acute toxicity - Inhalation (Dusts/Mists)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Not classified
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration toxicity	Not classified
Physical hazards	None

### 2.2. Label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Hazards not otherwise classified (HNOC)** Not applicable

### 2.3 Other information

**Other hazards**

- May be harmful in contact with skin
- Harmful to aquatic life with long lasting effects

**Unknown acute toxicity** 6.32 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

#### Non-Hazardous Components

Chemical Name	CAS No.	Weight-%
Lubricating Base Stocks	Mixture	85-95

## 4. FIRST AID MEASURES

### 4.1 4.1 First Aid Measures

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<b>General Advice</b>	If symptoms persist, call a physician. Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Do not induce vomiting without medical advice. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Call a physician or poison control center immediately.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with eyes, skin and clothing.

**4.2 4.2 Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**4.3 4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Flammable Properties** NFPA: Class IIIB Combustible Liquid

**5.1 Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.

**5.2 Specific Hazards Arising from the Chemical** Keep product and empty container away from heat and sources of ignition.

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and / or irritating. Combustion products may include and are not limited to:  
Carbon oxides  
Calcium Oxides (CaOx)  
Hydrogen Sulfide  
Nitrogen oxides (NOx)  
Oxides of Phosphorus  
Sulphur oxides  
Zinc oxides

**5.3 Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with the skin and the eyes. Use personal protective equipment. Remove all

sources of ignition. Avoid breathing vapors or mists. Ensure adequate ventilation.

## 6.2 Environmental Precautions

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## 6.3 Methods and material for containment and cleaning up

**Methods for Clean-up** Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## Spill Management

**LARGE SPILLS** Eliminate sources of ignition. Prevent additional discharge of material if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 Regulatory Information) notify the National Response Center.

**WATER SPILLS** Prevent liquid entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Recover by pumping or with suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

## **7. HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

**Handling** Wear personal protective equipment. Do not breathe vapors or spray mist. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

**Safe Handling Advice** Handle in accordance with good industrial hygiene and safety practices.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage** Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place.

**Technical measures/Precautions** Ensure adequate ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

**Incompatible Materials and/or Coatings** No information available

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

**Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Other Exposure Guidelines (If Generated)**

Chemical Name	OSHA PEL	ACGIH TLV	ACGIH OEL (STEL)	NIOSHT REL TWA	ILA IHG	ILA ROEG	ILA Internal Exposure Limit
Oil mist, mineral	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>		TWA 5 mg/m <sup>3</sup> ST 10 mg/m <sup>3</sup>			
Hydrogen sulfide	Ceiling: 20 ppm	TWA: 1 ppm STEL: 5 ppm	5 ppm				

**8.2 Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal Protective Equipment**

**Eye/face protection**

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If splashes are likely to occur wear tight fitting safety goggles and/or face-shield.

**Skin protection**

Wear protective gloves/clothing. Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. **Glove Type:** Neoprene, Nitriles

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**

When using, do not eat, drink or smoke. Clean equipment, work area and clothing regularly.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

Appearance	Amber / Light Brown
Physical State	Liquid
Odor	Characteristic
Odor Threshold	No information available
pH	Not applicable
Melting point / melting range	Not applicable
Boiling point / boiling range	No information available
Flash Point	232 °C / 450 °F COC ASTM D92
Evaporation Rate	No information available
Flammability Limit in Air	No information available
Explosion Limits	No information available
Vapor Pressure	No information available
Vapor Density (Air)	No information available

Density	0.84 g/cm <sup>3</sup> @15°C
Solubility	No information available
Partition Coefficient (n-octanol/water)	No information available
Autoignition Temperature	No information available
Decomposing Temperature	No information available
Viscosity	@ 40C = 48.34 cSt; @ 100C = 8.503 cSt

#### Other Information

### **10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity

Reactivity The product is chemically stable

#### 10.2 Chemical stability

Chemical Stability Stable under recommended storage conditions.

#### 10.3 Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

#### 10.4 Conditions to Avoid

Conditions to Avoid Heat, flames and sparks.

#### 10.5 Incompatible Materials

Incompatible Materials Strong oxidizing agents.

#### 10.6 Hazardous Decomposition Products

Hazardous decomposition products Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 150F.

### **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause slight irritation.
Skin Contact	May be harmful in contact with skin.
Ingestion	May be harmful if swallowed.

#### 11.2 Information on toxicological effects

Symptoms No information available

#### 11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Not classified.
Serious eye damage/eye irritation	Not classified.

**Sensitization** Not classified.

**Mutagenic effects** Not classified.

#### 11.4 Carcinogenicity

**Carcinogenicity** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, OSHA or ACGIH.

**Legend:**

*NTP (National Toxicology Program) ACGIH (American Conference of Governmental Industrial Hygienists) IARC (International Agency for Research on Cancer) OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive Effects** Not classified.

**STOT - single exposure** Not classified.

**STOT - repeated exposure** Not classified

**Aspiration hazard** Not classified.

#### 11.5 Acute Toxicity

**Unknown acute toxicity** 6.32 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

Product Information (Estimated):

**ATEmix (oral)** > 5,000 mg/kg

**ATEmix (dermal)** > 2,000 mg/kg

**ATEmix (inhalation-dust/mist)** > 5 mg/l

**ATEmix (inhalation-vapor)** > 20 mg/l

## **12. ECOLOGICAL INFORMATION**

#### 12.1 Ecotoxicity

**Ecotoxicity effects**

Harmful to aquatic life with long lasting effects. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

**Unknown aquatic toxicity**

6.64 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

12.2 Persistence and degradability No information available.

12.3 Bioaccumulation/Accumulation No information available

12.4. Mobility in soil No information available

PBT and vPvB assessment No information available

12.5 Other adverse effects: No information available

**13. DISPOSAL CONSIDERATIONS**

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

**Waste Disposal Method** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging** Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT - Non bulk** Not regulated

**DOT - Bulk** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	All ingredients are on the inventory or exempt from listing
<b>DSL</b>	All ingredients are on the inventory or exempt from listing
<b>NDSL</b>	Not Listed
<b>EINECS</b>	Does not comply
<b>ELINCS</b>	Contains an ELINCS substance
<b>ENCS</b>	All ingredients are on the inventory or exempt from listing
<b>CHINA</b>	All ingredients are on the inventory or exempt from listing
<b>KECL</b>	All ingredients are on the inventory or exempt from listing
<b>PICCS</b>	All ingredients are on the inventory or exempt from listing
<b>AICS</b>	All ingredients are on the inventory or exempt from listing
<b>NZIoC</b>	Does not comply

**USA**

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazardous Categorization**

**Acute Health Hazard** No

Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**CERCLA/SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 355.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**State Right-to-Know**

Chemical Name	CAS No.	New Jersey
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	X
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	X
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	X
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	X
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	X

Chemical Name	CAS No.	Massachusetts
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	X
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	X

Chemical Name	CAS No.	Pennsylvania
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	X

**New Jersey Worker and Community Right-to-Know Act:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Lubricating Oil)

**Canada**

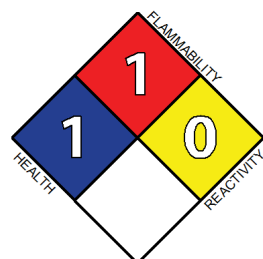
This material has been classified in accordance with the WHMIS 2015 regulation

Chemical Name	CAS No.	Weight-%	NPRI
Petroleum distillates	64742-48-9	1-5	Listed

Legend

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION**



NFPA

Health: 1

Flammability: 1

Instability: 0

Prepared By

Susie Bibb

Revision Date:

18-Oct-2016

Revision Summary:

Review  
Chronic Aquatic Hazard  
Unknown acute toxicity

**Disclaimer:**



The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**



**IDEMITSU**

# SAFETY DATA SHEET

<b>Product Name:</b>	<b>PPE</b>	
Idemitsu Full Synthetic Eng. Oil SAE 5W-30, 12 x 1 Quart Cse		

Revision Date: 18-Oct-2016

Revision Number: 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Product Name:** Idemitsu Full Synthetic Eng. Oil SAE 5W-30, 12 x 1 Quart Cse

### Other means of identification

**Product Code:** 20107-042

**Synonyms:** Not available

### 1.2 Recommended use of the chemical and restrictions on use

**Recommended Use:** Lubricant

**Uses advised against:** No information available

### 1.3. Details of the supplier of the safety data sheet

**Manufactured by:** Idemitsu Lubricants America Corporation, 701 Port Rd., Jeffersonville, IN. 47130 Telephone: 812-285-8234, Fax: 812-285-8243, Contact Name: Robin Hutchens, Email: sds@ilacorp.com

**24 Hour Emergency Phone Number:** Within USA and Canada: 1 800-424-9300  
Outside USA and Canada: + 1 703-741-5970 (collect calls accepted)

**2. HAZARDS IDENTIFICATION**

2.1 Classification

This material is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS 2015

Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Not classified
Acute toxicity - Inhalation (Gases)	Not classified
Acute toxicity - Inhalation (Vapors)	Not classified
Acute toxicity - Inhalation (Dusts/Mists)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Not classified
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration toxicity	Not classified
Physical hazards	None

2.2. Label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Hazards not otherwise classified (HNOC)** Not applicable

2.3 Other information

**Other hazards** • May be harmful in contact with skin

**Unknown acute toxicity** 5.8% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances

Not applicable

3.2 Mixtures

**Non-Hazardous Components**

Chemical Name	CAS-No	Weight %
Lubricating Base Stocks	Mixture	85-95

**4. FIRST AID MEASURES**

4.1 First Aid Measures

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<b>General Advice</b>	If symptoms persist, call a physician. Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Do not induce vomiting without medical advice. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Call a physician or Poison Control Center immediately.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**4.2 Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES**

<b>Flammable Properties</b>	NFPA: Class IIIB Combustible Liquid
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**5.1 Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

**5.2 Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous combustion products:**

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and / or irritating. Combustion products may include and are not limited to, Carbon oxides, Calcium Oxides (CaOx), Hydrogen Sulfide, Nitrogen oxides (NOx), Oxides of Phosphorus, Sulphur oxides, Zinc oxides.

**5.3 Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Avoid contact with the skin and the eyes. Use personal protective equipment. Remove all sources of ignition. Avoid breathing vapors or mists. Ensure adequate ventilation.
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**6.2 Environmental Precautions**

<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Do not flush into surface water or
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sanitary sewer system. Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

**6.3 Methods and material for containment and cleaning up**

**Methods for Clean-up** Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**Spill Management**

**LARGE SPILLS** Eliminate sources of ignition. Prevent additional discharge of material if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 Regulatory Information) notify the National Response Center.

**WATER SPILLS** Prevent liquid entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Recover by pumping or with suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

**Handling** Wear personal protective equipment. Do not breathe vapors or spray mist. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

**Safe Handling Advice** Handle in accordance with good industrial hygiene and safety practices.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage** Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place.

**Incompatible Materials and/or Coatings** No information available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Other Exposure Guidelines (If Generated)**

Chemical Name	OSHA PEL	ACGIH TLV	ACGIH OEL (STEL)	NIOSHT REL TWA	ILA IHG	ILA ROEG	ILA Internal Exposure Limit
Oil mist, mineral	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>		TWA 5 mg/m <sup>3</sup> ST 10 mg/m <sup>3</sup>			

Hydrogen sulfide	Ceiling: 20 ppm	TWA: 1 ppm STEL: 5 ppm	5 ppm				
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**8.2 Exposure controls**

**Appropriate engineering controls** Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal Protective Equipment**

- Eye/face protection** Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If splashes are likely to occur wear tight fitting safety goggles and/or face-shield.
- Skin protection** Wear protective gloves/clothing. Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. **Glove Type:** Neoprene, Nitriles
- Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** When using, do not eat, drink or smoke. Clean equipment, work area and clothing regularly.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Amber / Light Brown
<b>Physical State</b>	Liquid
<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	No information available
<b>pH</b>	Not applicable
<b>Melting point / melting range</b>	Not applicable
<b>Boiling point / boiling range</b>	No information available
<b>Flash Point</b>	232 °C / 450 °F COC ASTM D92
<b>Evaporation Rate</b>	No information available
<b>Flammability Limit in Air</b>	No information available
<b>Explosion Limits</b>	No information available
<b>Vapor Pressure</b>	No information available
<b>Vapor Density (Air)</b>	No information available
<b>Density</b>	0.84 g/cm <sup>3</sup> @15°C
<b>Solubility</b>	No information available
<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Decomposing Temperature</b>	No information available
<b>Viscosity</b>	@ 40C = 61.96 cSt; @ 100C = 10.79 cSt

**Other Information**

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

**Reactivity** The product is chemically stable

### 10.2 Chemical stability

**Chemical Stability** Stable under recommended storage conditions.

### 10.3 Possibility of Hazardous Reactions

**Possibility of Hazardous Reactions** None under normal processing.

### 10.4 Conditions to Avoid

**Conditions to Avoid** Heat, flames and sparks.

### 10.5 Incompatible Materials

**Incompatible Materials** Strong oxidizing agents.

### 10.6 Hazardous Decomposition Products

**Hazardous decomposition products** Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 150F.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause slight irritation.
<b>Skin Contact</b>	May be harmful in contact with skin.
<b>Ingestion</b>	May be harmful if swallowed.

### 11.2 Information on toxicological effects

<b>Symptoms</b>	No information available
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### 11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/eye irritation</b>	Not classified.
<b>Sensitization</b>	Not classified.
<b>Mutagenic effects</b>	Not classified.

### 11.4 Carcinogenicity

**Carcinogenicity** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, OSHA, or ACGIH.

**Legend:**

*NTP: (National Toxicity Program), ACGIH (American Conference of Governmental Industrial Hygienists) IARC: (International Agency for Research on Cancer), OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

<b>Reproductive Effects</b>	Not classified.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified
<b>Aspiration hazard</b>	Not classified.

### 11.5 Acute Toxicity

<b>Unknown acute toxicity</b>	5.8% of the mixture consists of ingredient(s) of unknown toxicity
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The following values are calculated based on chapter 3.1 of the GHS document .

#### Product Information (Estimated):

<b>ATEmix (oral)</b>	> 5,000 mg/kg
<b>ATEmix (dermal)</b>	> 2,000 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	> 5 mg/l
<b>ATEmix (inhalation-vapor)</b>	> 20 mg/l

## **12. ECOLOGICAL INFORMATION**

### 12.1 Ecotoxicity

#### **Ecotoxicity effects**

No known significant effects or critical hazards. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

#### **Unknown aquatic toxicity**

7.0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

12.2 Persistence and degradability No information available.

12.3 Bioaccumulation/Accumulation No information available

12.4. Mobility in soil No information available

PBT and vPvB assessment No information available

12.5 Other adverse effects: No information available

## **13. DISPOSAL CONSIDERATIONS**

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

#### **Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging** Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT - Non bulk** Not regulated

**DOT - Bulk** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	All ingredients are on the inventory or exempt from listing
<b>DSL</b>	All ingredients are on the inventory or exempt from listing
<b>NDSL</b>	Not Listed
<b>EINECS</b>	Does not comply
<b>ELINCS</b>	Contains an ELINCS substance
<b>ENCS</b>	Does not comply
<b>CHINA</b>	All ingredients are on the inventory or exempt from listing
<b>KECL</b>	All ingredients are on the inventory or exempt from listing
<b>PICCS</b>	All ingredients are on the inventory or exempt from listing
<b>AICS</b>	All ingredients are on the inventory or exempt from listing
<b>NZIoC</b>	Does not comply

**USA**

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazardous Categorization**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**CERCLA/SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 355.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**CWA (Clean Water Act)**

Contact Idemitsu Lubricants America for this information

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**State Right-to-Know**

Chemical Name	CAS-No	New Jersey
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	X
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	X
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	X
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	X
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	X

Chemical Name	CAS-No	Massachusetts
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	X
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	X

Chemical Name	CAS-No	Pennsylvania
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	X

**New Jersey Worker and Community Right-to-Know Act:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:  
PETROLEUM OIL (Lubricating Oil)

**Canada**

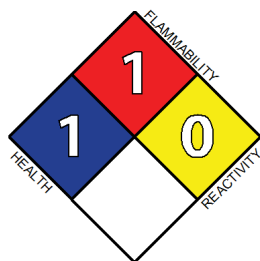
This material has been classified in accordance with the WHMIS 2015 regulation

Chemical Name	CAS-No	Weight %	NPRI
Petroleum distillates	64742-48-9	1-5	Listed

**Legend**

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION**



NFPA

Health: 1

Flammability: 1

Instability: 0

Prepared By

Susie Bibb

Revision Date:

18-Oct-2016

Revision Summary:

New Item

**Disclaimer:**



The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**



**IDEMITSU**

# SAFETY DATA SHEET

<b>Product Name:</b>	<b>PPE</b>	
Idemitsu Full Synthetic Eng. Oil SAE 5W-20, 12 x 1 Quart Cse		

Revision Date: 18-Oct-2016

Revision Number: 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Product Name:** Idemitsu Full Synthetic Eng. Oil SAE 5W-20, 12 x 1 Quart Cse

#### Other means of identification

**Product Code:** 20106-042

**Synonyms:** Not available

### 1.2 Recommended use of the chemical and restrictions on use

**Recommended Use:** Lubricant

**Uses advised against:** No information available

### 1.3. Details of the supplier of the safety data sheet

**Manufactured by:** Idemitsu Lubricants America Corporation, 701 Port Rd., Jeffersonville, IN. 47130 Telephone: 812-285-8234, Fax: 812-285-8243, Contact Name: Robin Hutchens, Email: sds@ilacorp.com

**24 Hour Emergency Phone Number:** Within USA and Canada: 1 800-424-9300  
Outside USA and Canada: + 1 703-741-5970 (collect calls accepted)

**2. HAZARDS IDENTIFICATION**

2.1 Classification

This material is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS 2015

Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Not classified
Acute toxicity - Inhalation (Gases)	Not classified
Acute toxicity - Inhalation (Vapors)	Not classified
Acute toxicity - Inhalation (Dusts/Mists)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Not classified
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration toxicity	Not classified
Physical hazards	None

2.2. Label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Hazards not otherwise classified (HNOC)** Not applicable

2.3 Other information

**Other hazards** • May be harmful in contact with skin

**Unknown acute toxicity** 5.3% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances

Not applicable

3.2 Mixtures

**Non-Hazardous Components**

Chemical Name	CAS-No	Weight %
Lubricating Base Stocks	Mixture	85-95

**4. FIRST AID MEASURES**

4.1 First Aid Measures

---

<b>General Advice</b>	If symptoms persist, call a physician. Take a copy of the Safety Data Sheet when going for medical treatment.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Do not induce vomiting without medical advice. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Call a physician or Poison Control Center immediately.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**4.2 Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES**

<b>Flammable Properties</b>	NFPA: Class IIIB Combustible Liquid
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**5.1 Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

**5.2 Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous combustion products:**

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and / or irritating. Combustion products may include and are not limited to, Carbon oxides, Calcium Oxides (CaOx), Hydrogen Sulfide, Nitrogen oxides (NOx), Oxides of Phosphorus, Sulphur oxides, Zinc oxides.

**5.3 Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Avoid contact with the skin and the eyes. Use personal protective equipment. Remove all sources of ignition. Avoid breathing vapors or mists. Ensure adequate ventilation.
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**6.2 Environmental Precautions**

<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Do not flush into surface water or
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sanitary sewer system. Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

**6.3 Methods and material for containment and cleaning up**

**Methods for Clean-up** Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**Spill Management**

**LARGE SPILLS** Eliminate sources of ignition. Prevent additional discharge of material if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 Regulatory Information) notify the National Response Center.

**WATER SPILLS** Prevent liquid entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Recover by pumping or with suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

**Handling** Wear personal protective equipment. Do not breathe vapors or spray mist. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

**Safe Handling Advice** Handle in accordance with good industrial hygiene and safety practices.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage** Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place.

**Incompatible Materials and/or Coatings** No information available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Other Exposure Guidelines (If Generated)**

Chemical Name	OSHA PEL	ACGIH TLV	ACGIH OEL (STEL)	NIOSHT REL TWA	ILA IHG	ILA ROEG	ILA Internal Exposure Limit
Oil mist, mineral	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>		TWA 5 mg/m <sup>3</sup> ST 10 mg/m <sup>3</sup>			

Hydrogen sulfide	Ceiling: 20 ppm	TWA: 1 ppm STEL: 5 ppm	5 ppm				
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**8.2 Exposure controls**

**Appropriate engineering controls** Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal Protective Equipment**

- Eye/face protection** Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If splashes are likely to occur wear tight fitting safety goggles and/or face-shield.
- Skin protection** Wear protective gloves/clothing. Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. **Glove Type:** Neoprene, Nitriles
- Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** When using, do not eat, drink or smoke. Clean equipment, work area and clothing regularly.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

<p><b>Appearance</b> <b>Physical State</b> <b>Odor</b> <b>Odor Threshold</b> <b>pH</b> <b>Melting point / melting range</b> <b>Boiling point / boiling range</b> <b>Flash Point</b> <b>Evaporation Rate</b> <b>Flammability Limit in Air</b> <b>Explosion Limits</b> <b>Vapor Pressure</b> <b>Vapor Density (Air)</b> <b>Density</b> <b>Solubility</b> <b>Partition Coefficient (n-octanol/water)</b> <b>Autoignition Temperature</b> <b>Decomposing Temperature</b> <b>Viscosity</b></p>	<p>Amber / Light Brown Liquid Characteristic No information available Not applicable Not applicable No information available 232 °C / 450 °F COC ASTM D92 No information available No information available No information available No information available No information available 0.84 g/cm<sup>3</sup> @15°C No information available No information available No information available No information available @ 40C = 48.34 cSt; @ 100C = 8.503 cSt</p>
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**Other Information**

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

**Reactivity** The product is chemically stable

### 10.2 Chemical stability

**Chemical Stability** Stable under recommended storage conditions.

### 10.3 Possibility of Hazardous Reactions

**Possibility of Hazardous Reactions** None under normal processing.

### 10.4 Conditions to Avoid

**Conditions to Avoid** Heat, flames and sparks.

### 10.5 Incompatible Materials

**Incompatible Materials** Strong oxidizing agents.

### 10.6 Hazardous Decomposition Products

**Hazardous decomposition products** Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 150F.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause slight irritation.
<b>Skin Contact</b>	May be harmful in contact with skin.
<b>Ingestion</b>	May be harmful if swallowed.

### 11.2 Information on toxicological effects

<b>Symptoms</b>	No information available
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### 11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/eye irritation</b>	Not classified.
<b>Sensitization</b>	Not classified.
<b>Mutagenic effects</b>	Not classified.

### 11.4 Carcinogenicity

**Carcinogenicity** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, OSHA, or ACGIH.

**Legend:**

*NTP: (National Toxicity Program), ACGIH (American Conference of Governmental Industrial Hygienists) IARC: (International Agency for Research on Cancer), OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive Effects** Not classified.  
**STOT - single exposure** Not classified.  
**STOT - repeated exposure** Not classified  
**Aspiration hazard** Not classified.

### 11.5 Acute Toxicity

**Unknown acute toxicity** 5.3% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

#### Product Information (Estimated):

**ATEmix (oral)** > 5,000 mg/kg  
**ATEmix (dermal)** > 2,000 mg/kg  
**ATEmix (inhalation-dust/mist)** > 5 mg/l  
**ATEmix (inhalation-vapor)** > 20 mg/l

## **12. ECOLOGICAL INFORMATION**

### 12.1 Ecotoxicity

#### **Ecotoxicity effects**

No known significant effects or critical hazards. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

#### **Unknown aquatic toxicity**

6.6% of the mixture consists of component(s) of unknown hazards to the aquatic environment

12.2 Persistence and degradability No information available.

12.3 Bioaccumulation/Accumulation No information available

12.4. Mobility in soil No information available

PBT and vPvB assessment No information available

12.5 Other adverse effects: No information available

## **13. DISPOSAL CONSIDERATIONS**

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

#### **Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated packaging** Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT - Non bulk** Not regulated

**DOT - Bulk** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	All ingredients are on the inventory or exempt from listing
<b>DSL</b>	All ingredients are on the inventory or exempt from listing
<b>NDSL</b>	Not Listed
<b>EINECS</b>	Does not comply
<b>ELINCS</b>	Contains an ELINCS substance
<b>ENCS</b>	Does not comply
<b>CHINA</b>	All ingredients are on the inventory or exempt from listing
<b>KECL</b>	All ingredients are on the inventory or exempt from listing
<b>PICCS</b>	All ingredients are on the inventory or exempt from listing
<b>AICS</b>	All ingredients are on the inventory or exempt from listing
<b>NZIoC</b>	Does not comply

**USA**

**Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazardous Categorization**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**CERCLA/SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 355.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**CWA (Clean Water Act)**

Contact Idemitsu Lubricants America for this information

**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**State Right-to-Know**

Chemical Name	CAS-No	New Jersey
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	X
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	X
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	X
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	X
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	X

Chemical Name	CAS-No	Massachusetts
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	X
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	X

Chemical Name	CAS-No	Pennsylvania
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	X

**New Jersey Worker and Community Right-to-Know Act:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:  
PETROLEUM OIL (Lubricating Oil)

**Canada**

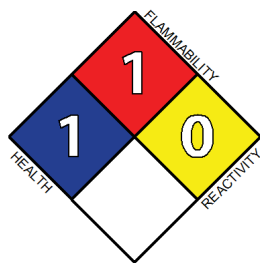
This material has been classified in accordance with the WHMIS 2015 regulation

Chemical Name	CAS-No	Weight %	NPRI
Petroleum distillates	64742-48-9	1-5	Listed

**Legend**

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION**



NFPA

Health: 1

Flammability: 1

Instability: 0

Prepared By  
Revision Date:

Susie Bibb  
18-Oct-2016

Revision Summary:

New Item

Disclaimer:

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**