







IDEMITSU

SAFETY DATA SHEET

Product Name:	PPE			
Idemitsu PSF, 12 x 12 Ounce Case				

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 PSF, 12 x 12 Ounce Case

Other means of identification

Product Code: 30102-052A

Synonyms Not available

1.2 Recommended use of the chemical and restrictions on use

Recommended Use Automotive 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 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	Category 1
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



Signal word

Warning

Hazard statements

H317 - May cause an allergic skin reaction

Precautionary Statements - Prevention:

P261 - Avoid breathing dust, fume, gas, mist, vapors or spray
 P280 - Wear protective gloves
 P272 - Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response:

P321 - Specific treatment (see supplemental first aid instructions on this label)
 P362 + P364 - Take off all contaminated clothing and wash it before reuse

Skin

P302 + 352 - IF ON SKIN: Wash with plenty of soap and water
 P363 - Wash contaminated clothing before reuse
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Disposal:

P501 - Dispose of contents or container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

2.3 Other information

Other hazards

• May be harmful in contact with skin

Unknown acute toxicity

6.27% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable

3.2 Mixtures**Hazardous Components**

Chemical Name	CAS-No	Weight %	GHS Classification	Notes
Thio Alkyl long chain alkyl ester	93882-40-7	<1	Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	

Non-Hazardous Components

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

4. FIRST AID MEASURES**4.1 First Aid Measures****General Advice**

If symptoms persist, call a physician. Take a copy of the Safety Data Sheet when going for medical treatment.

Eye Contact

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.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation

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.

Ingestion

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.

Protection of First-aiders

Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

No information available.

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.
<u>5.2 Specific Hazards Arising from the Chemical</u>	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, Hydrogen Sulfide, Oxides of Magnesium, Nitrogen oxides (NOx), Oxides of Phosphorus, Sulphur oxides, Zinc oxides.
<u>5.3 Protective Equipment and Precautions for Firefighters</u>	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 skin, eyes and clothing. Avoid breathing vapors or mists. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

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 Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. 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 ³	TWA: 5 mg/m ³		TWA 5 mg/m ³ ST 10 mg/m ³			
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. Long sleeved clothing. Choose the appropriate protective clothing / gloves based on the tasks being performed to avoid exposed skin surfaces.
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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Amber / Clear
Physical State	Liquid
Odor	Mild
Odor Threshold	No information available
pH	Not applicable
Melting point / melting range	Not applicable
Boiling point / boiling range	No information available
Flash Point	217 °C / 423 °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	0.86 g/cm ³ @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 = 38.27 cSt; @ 100C = 7.65 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.

Hazardous Polymerization

Hazardous polymerisation does not occur.

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 cause an allergic skin reaction.
Ingestion	May be harmful if swallowed.

11.2 Information on toxicological effects

Symptoms	No information available
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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	May cause an allergic skin reaction.
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.
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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	6.27% 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):

ATEmix (oral)	> 5,000 mg/kg
ATEmix (dermal)	> 2,000 mg/kg
ATEmix (inhalation-dust/mist)	> 5 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	4.74% of the mixture consists of components(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

TSCA	All ingredients are on the inventory or exempt from listing
DSL	All ingredients are on the inventory or exempt from listing
NDSL	Not Listed
EINECS	All ingredients are on the inventory or exempt from listing
ELINCS	Not Listed
ENCS	Does not comply
CHINA	All ingredients are on the inventory or exempt from listing
KECL	All ingredients are on the inventory or exempt from listing
PICCS	All ingredients are on the inventory or exempt from listing

AICS	Does not comply
NZIoC	All ingredients are on the inventory or exempt from listing

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	Yes
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 contains chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 355.

Chemical Name	CAS-No	Weight %	RQ	TPQ
Ethylene diamine	107-15-3	<0.01	5000 lb final RQ 2270 kg final RQ	10000 lb TPQ
Methyl methacrylate	80-62-6	<0.01	1000 lb final RQ 454 kg final RQ	
Benzene	71-43-2	<0.01	10 lb final RQ 4.54 kg final RQ	

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

This product contains the following HAPs:

Chemical Name	CAS-No	Weight %	HAPS data
Methyl methacrylate	80-62-6	<0.01	X
Benzene	71-43-2	<0.01	X

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CAS-No	Weight %	U.S. - CWA (Clean Water Act)
Zinc alkyl dithiophosphate	68457-79-4	<1	X
Ethylene diamine	107-15-3	<0.01	X
Methyl methacrylate	80-62-6	<0.01	X
Benzene	71-43-2	<0.01	X

State Regulations**California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Chemical Name	CAS-No	Weight %	California Prop. 65	Maximum Allowable Dose for Reproductive Toxicity (MADLS)	Safe Harbor Limits for Cancer-causing Chemicals (NSRLs)
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Benzene	71-43-2	<0.01	Carcinogen Developmental Male Reproductive	24µg/dayoral 49µg/dayinhalation	6.4 µg/day oral 13 µg/day inhalation
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State Right-to-Know

Chemical Name	CAS-No	New Jersey
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	X
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	X
Petroleum distillates, hydrotreated light paraffinic	64742-55-8	X
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	X
Amines, polyethylenepoly-, reaction products with succinic anhydride polybutenyl derivatives	68439-80-5	X
Poly long chain alkyl methacrylate	742890923-5216	X

Chemical Name	CAS-No	Massachusetts
Petroleum distillates, hydrotreated light paraffinic	64742-55-8	X

Chemical Name	CAS-No	Pennsylvania
Petroleum distillates, hydrotreated light paraffinic	64742-55-8	X
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	X
Amines, polyethylenepoly-, reaction products with succinic anhydride polybutenyl derivatives	68439-80-5	X
Poly long chain alkyl methacrylate	742890923-5216	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 (Automatic Transmission Fluid)

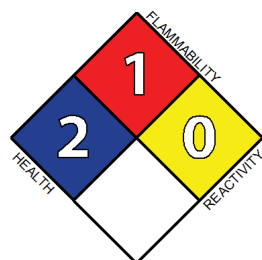
Canada

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

Chemical Name	CAS-No	Weight %	NPRI
Methyl methacrylate	80-62-6	<0.01	Listed
Benzene	71-43-2	<0.01	Listed

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION**NFPA****Health: 2****Flammability: 1****Instability: 0**

Prepared By
Revision Date:

Lakyn Neumeyer
18-Oct-2016

Revision Summary:

New GHS Classification
PPE

NFPA Code Change
SARA 311/312 Hazard change

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