





SAFETY DATA SHEET

| Product Name: | PPE |
|--|--|
| Idemitsu CVTF Type TLS FE, 12 x 1 Quart Case |   |

Revision Date: 27-Jun-2018

Revision Number: 1

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

1.1 Product identifier

Product Name: Idemitsu CVTF Type TLS FE, 12 x 1 Quart Case

Other means of identification

Product Code: 30041103-75000C020

1.2 Recommended use of the chemical and restrictions on use

Recommended Use: Lubricant

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 | Not classified |

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 if swallowed
May be harmful in contact with skin
Causes mild skin irritation
Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixture

Non-Hazardous Components

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

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: Get medical advice/attention. |
| 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. If symptoms persist, call a physician. |
| Protection of First-aiders | Use personal protective equipment. Avoid contact with eyes, skin 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.

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)
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 eyes, skin and clothing. Avoid breathing vapors or mists. Use personal |
|-----------------------------|---|

protection recommended in Section 8. Ensure adequate ventilation. Remove all sources of ignition.

6.2. Environmental precautions

Environmental Precautions

See section 12 for additional ecological information. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow into any sewer, on the ground or into any body of water. 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, spray, or mist. Avoid contact with eyes, skin and clothing. Use personal protection recommended in Section 8. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Should not be released into the environment.

Safe Handling Advice

Handle in accordance with good industrial hygiene and safety practices. Take precautionary measures against static discharges.

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.

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) | NIOSH 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 | | | |

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.

Skin protection

Choose the appropriate protective clothing and 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------|------------------------------|
| Appearance | Clear Red |
| Physical state | Liquid |
| Odor | Slight |
| Odor Threshold | No Information available |
| pH | Not applicable |
| Melting point / melting range | Not applicable |
| Boiling point / boiling range | No Information available |
| Flash Point | 177 °C / 350 °F COC ASTM D92 |
| Evaporation Rate | No Information available |
| Flammability Limit in Air | No Information available |
| Explosion Limits | No Information available |
| Vapor pressure @20 °C (kPa) | No Information available |
| Vapor density | No Information available |
| Density | 0.85 g/cm ³ @15°C |
| Solubility(ies) | No Information available |
| Partition coefficient | No Information available |
| Autoignition Temperature | No Information available |

Decomposing Temperature
Kinematic viscosity

No Information available
@40C = 22.98 cSt; @100C = 5.32 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 polymerization 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 can lead to release of irritating gases and vapors.

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 skin irritation and/or dermatitis. |
| 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), IARC (International Agency for Research on Cancer), OSHA (Occupational Safety and Health Administration of the US Department of Labor), ACGIH (American Conference of Governmental Industrial Hygienists)*

Reproductive Effects Not classified.

STOT - single exposure Not classified

STOT - repeated exposure Not classified

Aspiration hazard Not classified.

11.5 Acute Toxicity

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

Product Information (Estimated):

ATEmix (oral) >4,000 mg/kg

ATEmix (dermal) >2,000 mg/kg

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

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Ecotoxicity effects Toxic to aquatic life. 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 8.57 % 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 Environmental Media No Information available.

12.5 Other adverse effects: No Information available

PBT and vPvB assessment 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 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 | There are ingredients listed on the NDSL Inventory List | | |
| Chemical name | NDSL | CAS No. | Weight-% |
| Alkenyl dicarboxylamide | X | ACC 147376 | 1-5 |
| Alkyl Phosphites | X | AAC 151872 | <1 |
| 2-Mercapto-5-tert-nonyldithio-1,3,4-thiadiazole | X | 97503-12-3 | <0.1 |
| AICS | All ingredients are on the inventory or exempt from listing | | |
| REACH | 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 | 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 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 |
|---------------------|-----------|------------|---|-----|
| Methyl methacrylate | 80-62-6 | <0.1 | RQ 1000lb final RQ RQ 454kg final RQ | |
| Lead | 7439-92-1 | <0.000001 | RQ 10lb final RQ RQ 4.54kg final RQ | |
| Cadmium | 7440-43-9 | <0.000001 | RQ 10lb final RQ RQ 4.54kg final RQ | |
| Benzene | 71-43-2 | < 0.000001 | RQ 10lb final RQ RQ 4.54kg 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 | <0.1 | X |
| Benzene | 71-43-2 | < 0.000001 | 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) |
|---|-------------|------------|------------------------------|
| Methyl methacrylate | 80-62-6 | <0.1 | X |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | 113706-15-3 | <0.01 | X |
| Lead | 7439-92-1 | <0.000001 | X |
| Cadmium | 7440-43-9 | <0.000001 | X |
| Benzene | 71-43-2 | < 0.000001 | X |

State Regulations

California Proposition 65

Label:



WARNING. Cancer and Reproductive Harm - www.P65Warnings.ca.gov

| Chemical name | CAS No. | Weight-% | California Prop. 65 | Maximum Allowable Dose for Reproductive Toxicity (MADLS) | Safe Harbor Limits for Cancer-causing Chemicals (NSRLs) |
|---------------|-----------|------------|---|--|---|
| Lead | 7439-92-1 | <0.000001 | Carcinogen Developmental Female Reproductive Male Reproductive | 0.5µg/day | 15 µg/day oral |
| Cadmium | 7440-43-9 | <0.000001 | Carcinogen Developmental Male Reproductive | 4.1µg/dayoral | 0.05 µg/day inhalation |
| Benzene | 71-43-2 | < 0.000001 | Carcinogen | 24µg/dayoral | 6.4 µg/day oral |

| | | | | | |
|--|--|--|---------------------------------------|--------------------|-------------------------|
| | | | Developmental Male Reproductive | 49µg/dayinhalation | 13 µg/day inhalation |
|--|--|--|---------------------------------------|--------------------|-------------------------|

State Right-to-Know

| Chemical name | CAS No. | Weight-% | New Jersey |
|--|-------------|----------|------------|
| Petroleum distillates, hydrotreated light paraffinic | 64742-55-8 | 40-50 | X |
| Mineral oil (highly-refined oil) | | 1-5 | X |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | 1-5 | X |
| Alkenyl dicarboxylamide | ACC 147376 | 1-5 | X |
| Reaction product, amines, polyethylenepoly-w/ succinic anhydride,polyisobutenyl derivatives, borated | 134758-95-5 | 1-5 | X |

| Chemical name | CAS No. | Weight-% | Massachusetts |
|--|------------|----------|---------------|
| Petroleum distillates, hydrotreated light paraffinic | 64742-55-8 | 40-50 | X |

| Chemical name | CAS No. | Weight-% | Pennsylvania |
|--|-------------|----------|--------------|
| Petroleum distillates, hydrotreated light paraffinic | 64742-55-8 | 40-50 | X |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | 1-5 | X |
| Amines, polyethylenepoly-, reaction products with succinic anhydride polybutenyl derivatives | 68439-80-5 | 1-5 | X |
| Alkenyl dicarboxylamide | ACC 147376 | 1-5 | X |
| Reaction product, amines, polyethylenepoly-w/ succinic anhydride,polyisobutenyl derivatives, borated | 134758-95-5 | 1-5 | 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

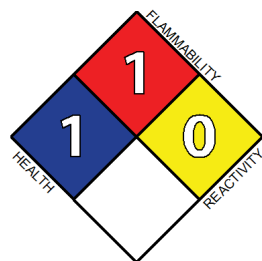
This material has been classified in accordance with the WHMIS 2015 regulation

| Chemical name | CAS No. | Weight-% | NPRI |
|---|------------|-----------|--------|
| 2,6-di-tert-butyl p-cresol | 128-37-0 | <1 | Listed |
| Petroleum distillates, hydrotreated light | 64742-47-8 | <1 | Listed |
| Methyl methacrylate | 80-62-6 | <0.1 | Listed |
| Diphenylamine | 122-39-4 | <0.01 | Listed |
| Lead | 7439-92-1 | <0.000001 | Listed |
| Cadmium | 7440-43-9 | <0.000001 | Listed |
| Benzene | 71-43-2 | NF | Listed |

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION



NFPA

Health hazards 1

Flammability 1

Instability 0

Prepared By: Aaron Keck

Revision Date: 27-Jun-2018

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