

# SAFETY DATA SHEET

This safety data sheet complies with the requirements of: OSHA Hazard Communication Standard (29 CFR 1910.1200)

Product Name: Idemitsu Hermetic Oil 1234YF, 6 x 250ml Case Revision Date: 19-Aug-2019

Product Code: 32450017-70200C020 Revision Number: 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: Idemitsu Hermetic Oil 1234YF, 6 x 250ml Case

Other means of identification

**Product Code:** 32450017-70200C020

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

Supplied by: Idemitsu Lubricants America Corporation

701 Port Rd., Jeffersonville, IN. 47130

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.

Skin sensitization	Category 1
Reproductive toxicity	Category 2 Testes

#### 2.2 Label elements



Signal word: Warning

Hazard Statements H317 - May cause an allergic skin reaction

H361 - Suspected of damaging fertility or the unborn child if

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swallowed

**Precautionary Statements - Prevention** P201 - Obtain special instructions before use. P202 - Do not

handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing and eye/face protection. P261 - Avoid breathing dust, fume, gas, mist, vapors, or spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective

gloves and protective clothing.

**Precautionary Statements - Response** P308 + P313 - IF exposed or concerned: Get medical

advice/attention. P362 + P364 - Take off all contaminated

clothing and wash it before reuse.

Skin P302 + P352 - 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 - Storage P405 - Store locked up.

Precautionary Statements - Disposal P501 - Dispose of contents/ 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

May be harmful if swallowed

Very toxic to aquatic life

Toxic to aquatic life with long lasting effects

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixture

**Hazardous Components** 

Chemical name	CAS-No	weight-%	US GHS Classification	Notes
Polyether compound	Confidential	90-100	Skin Sens. 1 (H317)	
Tricresylphosphate	1330-78-5	<1	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Reproductive 2 (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	

If CAS number is "confidential", the specific chemical identity and percentage of composition has been withheld as a trade secret.

# 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 or attention. IF exposed or concerned: Get medical advice.

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Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before re-use. Call a physician

immediately.

**Inhalation** In case of inadequate ventilation wear respiratory protection. If breathing difficulties

develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. If unconscious place in recovery position and seek medical advice. 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. Rinse mouth. Never give anything by mouth to

an unconscious person. Call a physician or poison control center immediately.

# 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

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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

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are not limited to: Carbon oxides Nitrogen oxides (NOx) Oxides of Phosphorus

**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,

diatomaceus 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 Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood. Do not breathe dusts or mists. Avoid contact with eyes, skin and clothing. Use personal protection recommended in the SDS. Wear protective gloves, protective clothing, eye protection, and face protection. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Should not be released into

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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.

### 8.2 Exposure controls

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 and gloves based on the tasks being performed to avoid exposed skin surfaces.

Glove Type: Neoprene, Nitriles

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** 

Handle in accordance with good industrial hygiene and safety practices. Clean equipment, work area and clothing regularly.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

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

AppearanceColorlessPhysical stateLiquidOdorSlight

Odor Threshold No information available

pH Not applicable

Melting point / melting range Not applicable

Boiling point / boiling range >= 230 °C / 446 °F

Boiling point / boiling range >= 230 °C / 446 °F Flash Point >= 230 °C / 356 °F COC ASTM D92

Evaporation Rate
No information available
Flammability Limit in Air
No information available

Explosion Limits

Vapor pressure @20 °C (kPa)

Vapor density

No information available
No information available
No information available
No information available
0.98 g/cm<sup>3</sup> @15°C

Density0.98 g/cm³ @ 15°CSolubility(ies)Insoluble in waterPartition coefficientNo information availableAutoignition TemperatureNo information availableDecomposing TemperatureNo information available

**Kinematic viscosity** @40C=42.66 cSt; @100C = 9.512 cSt

#### 9.2. Other information

No additional information available

# 10. STABILITY AND REACTIVITY

10.1 Reactivity

**Reactivity** The product is chemically stable.

10.2 Chemical stability

Chemical Stability Stable under normal 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 can lead to release of irritating gases and

vapors.

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# 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on likely routes of exposure

**Inhalation** May cause respiratory irritation.

**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

#### 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. May cause sensitization of susceptible persons.

Mutagenic effects Not classified.

Reproductive Toxicity Suspected of damaging fertility or the unborn child if swallowed

STOT - single exposure Not classified.

STOT - repeated exposure Not classified

Aspiration hazard 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 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)

#### 11.5 Acute Toxicity

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

#### Product Information (Estimated):

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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyether compound	>2000 mg/kg	>2000 mg/kg	
Tricresylphosphate 1330-78-5	> 20000 mg/kg (Rat)	> 10000 mg/kg ( Rabbit )	No Data

# 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

Ecotoxicity effects Very toxic to aquatic life. Toxic 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** 95.09 % 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 This mixture contains substances considered to be very

persistent and very bioaccumulating (vPvB) This mixture contains substances considered to be persistent, bioaccumulating and

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toxic (PBT)

### 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** Not Regulated < 119 gallons

<u>DOT - Bulk</u> Regulated

Marine Pollutant Yes

Shipping Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Decyloxirane,

1,2-Epoxytetradecane), 9, PGIII, Marine Pollutant

IATA Regulated

Shipping Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Decyloxirane,

1,2-Epoxytetradecane), 9, PGIII

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IMDG Regulated

Marine Pollutant Yes

Shipping Description UN3082, Environmentally hazardous substances, liquid, n.o.s. (Decyloxirane,

1,2-Epoxytetradecane), 9, PGIII, Marine Pollutant

MEX Regulated

Shipping Description UN3082, Environmentally hazardous substances, liquid, n.o.s. (Decyloxirane,

1,2-Epoxytetradecane), 9, PGIII Marine Pollutant

# 15. REGULATORY INFORMATION

# **International Inventories**

TSCA	All ingredients are on the inventory or exempt from listing		
DSL	Not all ingredients are listed on the DSL Inventory List		
NDSL	There are ingredients listed on the NDSL Inventory List		
Chemical name	NDSL	CAS-No	weight-%
Decyloxirane	X	2855-19-8	1-5
1,2-Epoxytetradecane	X	3234-28-4	1-5
Phosphonic acid, di-9-octadecenyl ester	X	64051-29-2	<1
ENCS	All ingredients are on the inventory or exempt from listing		
IECSC	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		
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 Skin Sensitizer, Reproductive Toxicity
Chronic Health Hazard Skin Sensitizer, Reproductive Toxicity

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.

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Instability: 0

State Regulations

**California Proposition 65** 

Label: This product does not contain any Proposition 65 chemicals

<u>State Right-to-Know</u>
This product does not contain any substances regulated by state right-to-know regulations

# **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

Health hazards: 2

Flammability: 1

Legend NPRI - National Pollutant Release Inventory

#### 16. OTHER INFORMATION

Prepared By: Lindsay Lindsey

**NFPA** 

**Revision Date:** 19-Aug-2019

**Estimated Tox Data Revision Summary:** 

#### 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 quide 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**