



**IDEMITSU**

# SAFETY DATA SHEET

Issue Date 19-Jul-2013

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Version 2

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product name** IDEMITSU SN/GF-5 0W-20 FULLY-SYNTHETIC

### Other means of identification

**Product Code** LV-156

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

**Recommended Use** Lubricant

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

#### Manufacturer

IDEMITSU LUBE VIETNAM CO., LTD  
Land lot CN5.2E, Dinh Vu IZ, Dong Hai 2 ward  
Hai An Dist., Hai Phong City, Vietnam.  
Tel: +84.31.3246 508  
Fax: +84.31.3246 509

### Emergency telephone number

24 Hour Emergency Phone Number  
United States and Canada:+1 215 207 0061  
Mexico:+52 555 004 8763  
Brazil:+55 113 711 9144  
East/South East Asia:+65 3158 1074  
Korea +82 (0) 234 798 401(South Korea in country number)  
Australia +61 2801 44558  
New Zealand +64 9929 1483

## SECTION 2: Hazards identification

### Classification

### Label elements

#### Emergency Overview

**Appearance** clear

**Physical state** liquid

**Odor** characteristic

### Hazards not otherwise classified (HNOC)

- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life
- Not Applicable

### Other Information

4.3% of the mixture consists of ingredient(s) of unknown toxicity

### SECTION 3: Composition/information on ingredients

chemical name	CAS No	weight-%	Trade Secret
PETROLEUM HYDROCARBON (MINERAL OIL)	-	>=90	*
LUBRICATING OIL ADDITIVE	-	<8	*
ZINC, BIS[O,O-BIS(2-ETHYLHEXYL) PHOSPHORODITHIOATO-S,S']-, (T-4)-	4259-15-8	<1	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4: First aid measures

#### first aid measures

<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.
<b>Skin Contact</b>	Wash skin with soap and water.
<b>INHALATION</b>	Move to fresh air in case of accidental inhalation of vapors or decomposition products. (Get medical attention immediately if symptoms occur.).
<b>INGESTION</b>	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

### SECTION 5: FIRE FIGHTING MEASURES

#### Suitable Extinguishing Media

CO2, dry chemical, dry sand, alcohol-resistant foam.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

#### Explosion Data

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** none.

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions** Should not be released into the environment.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

## SECTION 7: Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Use personal protective equipment as required. Avoid breathing vapors or mists.

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

**Storage Conditions** Store at ambient conditions. Store in accordance with local regulations.

**Incompatible materials** None known based on information supplied.

## SECTION 8: Exposure controls/personal protection

**Control parameters**

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

chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
PETROLEUM HYDROCARBON (MINERAL OIL)	5mg/m <sup>3</sup>	-	-

chemical name	ACGIH TLV
PETROLEUM HYDROCARBON (MINERAL OIL)	5mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

<b>Color</b>	brown
<b>Appearance</b>	clear
<b>Physical state</b>	liquid
<b>Odor</b>	characteristic

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	No data available	
<b>Melting point/freezing point</b>		
<b>melting point</b>	No information available	
<b>Pour point</b>	-50.0 °C	
<b>freezing point</b>	No information available	
<b>Initial boiling point</b>	270 °C Or more	
<b>flash point</b>	218 °C / 424 °F	Cleveland Open Cup
<b>Flammability Limits in Air</b>		
<b>Upper flammability limits</b>	7 vol%	
<b>Lower flammability limit</b>	1vol%	
<b>Density @15°C</b>	0.8476 g/cm3	
<b>Solubility(ies)</b>		
<b>Water solubility</b>	Insoluble in water	
<b>Kinematic viscosity 40°C</b>	45.43 mm2/s	
<b>Kinematic viscosity 100°C</b>	8.706 mm2/s	
<b>Dropping point</b>	No information available	

## SECTION 10: Stability and reactivity

### Reactivity

No data available

### Chemical stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Strong oxidizing agents. Heat, flames and sparks.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Product Information</b>	No data available
<b>INHALATION</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Skin Contact</b>	No data available.
<b>INGESTION</b>	No data available.

chemical name	Acute toxicity (LD50) -Oral-	Acute toxicity (LD50) -Dermall-	Inhalation LC50
ZINC, BIS[O,O-BIS(2-ETHYLHEXYL) PHOSPHORODITHIOATO-S,S']-, (T-4)- 4259-15-8	= 3100 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-

### Information on toxicological effects

**Symptoms** No information available.

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

<b>Sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<i>ACGIH (American Conference of Governmental Industrial Hygienists)</i>	
A2 - Suspected Human Carcinogen	
<i>IARC (International Agency for Research on Cancer)</i>	
Group 1 - Carcinogenic to Humans	
Not classifiable as a human carcinogen	
<i>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</i>	
X - Present	
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	Not classified.

### Numerical measures of toxicity - Product Information

**Unknown Acute toxicity** 4.3% of the mixture consists of ingredient(s) of unknown toxicity  
**The following values are calculated based on chapter 3.1 of the GHS document .**

## SECTION 12: Ecological information

### Ecotoxicity

4.3% of the mixture consists of component(s) of unknown hazards to the aquatic environment

chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
ZINC, BIS[O,O-BIS(2-ETHYLHEXYL) L) PHOSPHORODITHIOATO- S,S']-, (T-4)- 4259-15-8	1.0 - 5.0: 96 h Pseudokirchneriella subcapitata mg/L EC50	10.0 - 35.0: 96 h Pimephales promelas mg/L LC50 semi-static 1.0 - 5.0: 96 h Pimephales promelas mg/L LC50 static		1 - 1.5: 48 h Daphnia magna mg/L EC50

### Persistence and degradability

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**Other adverse effects**

No information available

**SECTION 13: Disposal considerations****Waste treatment methods****Disposal of wastes**

Improper disposal or reuse of this container may be dangerous and illegal.

**Contaminated packaging**

Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

chemical name	California Hazardous Waste Status
ZINC, BIS[O,O-BIS(2-ETHYLHEXYL) PHOSPHORODITHIOATO-S,S']-, (T-4)- 4259-15-8	Toxic
ZINC, BIS[O,O-BIS(1,3-DIMETHYLBUTYL) PHOSPHORODITHIOATO-S,S']-, (T-4)- 2215-35-2	Toxic

**SECTION 14: Transport information****DOT**

Not regulated

**TDG**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

**ADR**

Not regulated

**IBC**

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not regulated

Proper shipping name  
CATEGORY

Not regulated

Not regulated

**SECTION 15: Regulatory information****US 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

chemical name	CAS No	weight-%	SARA 313 - Threshold Values %
ZINC, BIS[O,O-BIS(2-ETHYLHEXYL) PHOSPHORODITHIOATO-S,S']-, (T-4) - 4259-15-8	4259-15-8	<1	1.0

**SARA 311/312 Hazard Categories**

<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

**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	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
ZINC, BIS[O,O-BIS(2-ETHYLHEXYL) PHOSPHORODITHIOATO- S,S']-, (T-4)- 4259-15-8		X		

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

chemical name	New Jersey	Massachusetts	Pennsylvania
ZINC, BIS[O,O-BIS(2-ETHYLHEXYL) PHOSPHORODITHIOATO-S,S']-, (T-4)- 4259-15-8	X		X

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

**International Inventories**

<b>ENCS</b>	Complies
<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>DSL</b>	Complies
<b>AICS</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>China (IECSC)</b>	Complies
<b>NZIoC</b>	Complies
<b>Taiwan</b>	Complies

**SECTION 16: Other information**

<b>NFPA</b>	<b>Health hazards</b> 0	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and Chemical Properties</b> -
<b>HMIS</b>	<b>Health hazards</b> 0	<b>Flammability</b> 1	<b>Physical hazards</b> 0	<b>Personal protection</b> X

**Issue Date** 19-Jul-2013  
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**Revision Note**  
 No information available

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**Disclaimer**

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**