

#### To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrantee or guarantee the information. We provide vendor SDSs in accordance with the requirements of the OSHA Hazard Communication Standard in order to assist our customers in their compliance efforts. We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Compliance Services Zep Inc.

# IDEMITSU

# SAFETY DATA SHEET

Product Name:

Kia Pag Oil, 6 x 8oz Case

Revision Date: 14-May-2015 Revision Number: 2

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

#### 1.1 Product Identifier

Product Name: Kia Pag Oil, 6 x 8oz Case

Other means of identification

**Product Code:** 3425025-062A

Synonyms Not available

1.2 Recommended use of the chemical and restrictions on use

Recommended Use Refrigerant Oil

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplied by Idemitsu Lubricants America Corporation

701 Port Rd.

Jeffersonville, IN. 47130 Telephone: 812-285-8234 Fax: 812-285-8243

Contact Name: Robin Hutchens

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Manufactured by IDEMITSU KOSAN CO., LTD

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**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

	Transaction of the control of the co
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 1A
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Category 2 - Testes
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
Oignai word	waning

Hazard statements H317 - May cause an allergic skin reaction

H361 - Suspected of damaging fertility or the unborn child if

swallowed

**Precautionary Statements - Prevention:** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read

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and understood

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves and protective clothing

P280 - Wear face protection

P272 - Contaminated work clothing should not be allowed out of

the workplace

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

advice/attention

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 - 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

• Harmful to aquatic life with long lasting effects

· Harmful to aquatic life

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**Unknown acute toxicity** 0.9% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical Name	CAS-No	Weight %	Notes
Polyether compound	Confidential	90-100	
Tricresylphosphate	1330-78-5	1-5	

<sup>- \*</sup> The exact percentage (concentration) 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, 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 Water fog, Carbon dioxide (CO 2), Foam, Dry chemical, Use

water spray to cool unopened containers

Unsuitable Extinguishing Media No information available.

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, Oxides of Phosphorus.

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**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 skin, eyes and clothing. Wear personal protective clothing (see section

8). Ensure adequate ventilation, especially in confined areas. Do not touch or walk through

spilled material.

For emergency responders

Use personal protection recommended in Section 8. Ventilate the area. Do not get on skin

or on clothing. Wash hands thoroughly after handling.

**6.2 Environmental Precautions** 

Environmental Precautions Should not be released into the environment. Do not allow material to contaminate ground

water system. Prevent product from entering drains.

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g.

by containment or oil barriers).

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). Pick up and transfer to properly labeled containers.

Methods for Containment Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g.

by containment or oil barriers).

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** Avoid contact with skin, eyes and clothing. Handle in accordance

with good industrial hygiene and safety practice. Do not breathe

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vapors or spray mist. Ensure adequate ventilation.

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

practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store in tightly sealed containers to protect from atmospheric

moisture. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep container closed. Do not store with strong oxidizing agents. Do not store at elevated temperatures. Avoid storing product in direct sunlight for extended periods of time. Consult appropriate federal, state and local authorities before reusing, reconditioning.

reclaiming, recycling or disposing of empty containers or waste

residues of this product.

Incompatible Materials and/or Coatings

No information available

# 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

<u>Appropriate engineering controls</u> 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 Tightly fitting safety goggles. Wear chemical splash goggles and face shield when eye and

face contact is possible due to splashing or spraying of material.

Skin protection Impervious clothing. Additional body garments should be used based upon the task 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

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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 Clear Oily Liquid

Physical State Liquid Odor Mild

Odor Threshold No information available

pHMelting point / melting rangeNot applicableNot applicable

Boiling point / boiling range No information available

Flash Point > 200 °C / 392 °F COC ASTM D92

Evaporation Rate

Flammability Limit in Air

Explosion Limits

Vapor Pressure

Vapor Density

No information available

**Density** 0.99 g/cm<sup>3</sup> @15°C **Solubility** Insoluble

Partition Coefficient (n-octanol/water)

Autoignition Temperature

No information available
No information available

Decomposing Temperature No information available

**Viscosity** @40C = 49.0 cSt; @100C=10.61 cSt

**Other Information** 

DMSO extract by IP346 Not applicable

# 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 Acids. Bases. Oxidizing agent.

10.6 Hazardous Decomposition Products

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**Hazardous decomposition products** 

Thermal decomposition can lead to release of irritating gases and

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vapors.

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** May cause irritation.

**Skin Contact** May cause an allergic skin reaction.

Ingestion Harmful if swallowed. Contains a known or suspected reproductive toxin.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tricresylphosphate 1330-78-5	3000 mg/kg (Rat)	1701 mg/kg (Rabbit)	

# 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** No information available.

Serious eye damage/eye

irritation

No information available.

**Sensitization** May cause sensitization by skin contact.

Mutagenic effects No information available.

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), Group 1 -

Carcinogenic to Humans OSHA: (Occupational Safety & Health Administration)

**Reproductive Effects**Contains a known or suspected reproductive toxin.

STOT - single exposure None known.

STOT - repeated exposure None known

Aspiration hazard No information available.

11.5 Acute Toxicity

**Unknown acute toxicity** 0.9% 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) >5000 mg/kg
ATEmix (dermal) >2200 mg/kg
ATEmix (inhalation-vapor) 5000 mg/l

#### 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Ecotoxicity effects Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment. 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

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cause a fish kill or create an anaerobic environment.

**Unknown aquatic toxicity** 98.3% of the mixture consists of components(s) of unknown hazards to the aquatic

environment

12.2 Persistence and degradability The hydrocarbons in this material are not readily biodegradable, but since they can be

degraded by microorganisms, they are regarded as inherently biodegradable.

12.3 Bioaccumulation/Accumulation

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.

To minimize exposure, see Section 8 (Exposure Controls/Personal Protection) of the SDS.

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 Empty Container Warning (where applicable): Empty containers may contain residue and

can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND

CAUSE INJURY OR DEATH.

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

IATA Not regulated

Not regulated

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IMDG/IMO

# 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 %
Phosphonic acid, di-9-octadecenyl es	ter X	64051-29-2	<1
EINECS	All ingredients are	on the inventory or exempt from	m listing
ELINCS	Not Listed		
ENCS	All ingredients are on the inventory or exempt from listing		
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	Does not comply		
Mexico	Does not comply		
REACH	All ingredients are on the inventory or exempt from listing		

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ľ	USA		

#### Federal Regulations

#### <u>SARA 313</u>

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 Yes
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		
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#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# State Right-to-Know

Chemical Name	CAS-No	New Jersey
Tricresylphosphate	1330-78-5	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

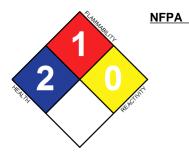
This material has been classified in accordance with the WHMIS 2015 regulation

Chemical Name	CAS-No	Weight %	NPRI
2,6-di-tert-butyl p-cresol	128-37-0	<1	Listed
Isopropyl alcohol	67-63-0	NF	Listed

#### Legend

NPRI - National Pollutant Release Inventory

#### 16. OTHER INFORMATION



\_ Health: 2

Flammability: 1

Instability 0

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Prepared By Robin Hutchens Revision Date: 14-May-2015

Revision Summary: GHS SDS format

Section 2: HAZARDS IDENTIFICATION

#### 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**