

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.



Part Number: UM013 CH059 Date Prepared: 2013/4/15 Date Revised: 2013/5/2

Product Name: Kia ATF Type 4(M)

1. Identification of the substance/mixture and of the company/undertaking

Product Name: Kia ATF Type 4(M)

Identification of the JX Nippon Oil & Energy Corporation

supplier:

6-3, Otemachi 2-Chome, Chiyoda-ku, Tokyo, 100-8162 Japan Address:

Charge section: Lubricants Quality Assurance Group

(TEL:+81 3-6275-5158)

2. Hazards identification

hazard category Category

> Flammable liquids No Classification Acute toxicity (oral) No Classification Acute toxicity (dermal) No Classification Specific target organ systemic toxicity No Classification

following single exposure

Specific target organ systemic toxicity

following repeated exposure

Aspiration hazard

No Classification

LABEL ELEMENTS

Precautionary Not applicable pictograms: Signal word: Not applicable Hazard Statement: Not applicable

Precautionary Statements:

Prevention Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

No Classification

3. Composition/information on ingredients

Substance/Mixture: Mixture

Ingredients and Concentration

Ingredient Name	Concentrationwt.%
Base Oil(s)	80-90
Additives	<20

4. First-aid measures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

Cover the body with blankets to keep warm and quiet. If you feel

unwell, seek medical advice.

Skin Contact: Immediately flush skin with large amounts of water.

Wash contaminated clothing before reuse.



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If skin irritation occurs: Get medical advice/attention.

Eye Contact: Rinse with clean water carefully for several minutes. Rem

Rinse with clean water carefully for several minutes. Remove contact lenses if present and if removal is easy, then continue rinsing. Rinse for 15 minutes at a minimum and seek medical

attention.

Ingestion: Do not induce vomiting. Drink [one glass] [two glasses] of

water. Call a physician [or poison control

center] immediately.

5. Fire-fighting measures

Suitable Extinguishing Media: Mist of loaded liquid, dry chemicals, carbon dioxide, fire foam,

and dry sand are effective.

Extinguishing Media to Avoid: Use of straight steam of water can cause a risk of spreading

fire.

Specific hazards arising from the

chemical:

In some cases of fire, may release irritant gases.

When burnt, may generate carbon monoxide and other toxic gases. Fire Fighting:

Spray water to the surrounding facilities for cooling.

Keep unauthorized persons off the site of occurrence of fire and

the surroundings.

Even after extinction, cool containers thoroughly with plenty of

water.

Special protective equipment and precautions for fire fighters:

Wear fire/flame resistant/retardant clothing.

Fight fire from windward direction while wearing protective equipment. If contact with skin is expected, wear impervious

protective equipment and gloves.

Use air-breathing apparatus and protective clothing whenever

necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment when working.

Remove nearby potential ignition sources immediately.

When mist is generated, use respiratory equipment to prevent

inhalation of mist.

Do not touch or walk through spillage.

Pay attention to the site of spillage, which is slippery.

Environmental precautions: Prevent spreading of oil spill with earth and sand, sandbags, or other proper materials and use care not to allow the oil spill

to flow to street drains, sewer systems, and rivers.

At sea, install oil spill containment booms to prevent spreading

of spills and absorb with absorption mat or other proper

materials.

Methods and materials for containment and cleaning up:

In case of spillage in small quantity, collect spillage by absorbing with earth, sand, sawdust, waste, or other proper

materials.



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In case of spillage in large quantity, enclose with embankment

to prevent spreading of spillage and collect spillage in empty

containers to the extent possible.

Prevention of second accident: In case of spillage, immediately inform the organizations

concerned of the spillage to prevent possible accidents and

spreading of spillage.

Remove nearby potential ignition sources immediately and make fire-extinguishing agents available. Remove spillage completely,

and ventilate and clean the site and the surroundings.

7. Handling and storage

Handling

Technical Measures: Keep away from any possible contact with sparks, open flames,

and high-temperature materials, and do not allow release of

vapor without justification.

Use pumps or other proper equipment for taking out from

containers. Do not siphon with your mouth using a tube. Do not

drink.

When mist is generated, use respiratory equipment to prevent

inhalation of mist.

In case of vapor/mist dispersion, install a closed system, local

ventilation system, and/or other proper equipment for the

sources of vapor/mist generation.

Avoid rough handling of containers such as falling, dropping,

exposing to shock, and dragging.

Ventilation

requirements: Precautions: Maintain adequate ventilation when handling indoors.

Wash hands and face thoroughly after handling. Be careful with fire.

Precautions for safe

handling:

Avoid falling, dropping, exposing to shock, or dragging of

containers.

Wear protective gloves when opening containers to eliminate a

risk of hand injury.

Storage

Storage Conditions: Store in a well ventilated, cool, dry, dark place, protecting

from direct sunlight and keeping away from any potential

ignition sources and high-temperature materials. Store tightly stopped after use to prevent possible

contamination with dust and moisture.

Preferably store locked up in a proper storage area.

Safety adequate container materials:

Use spill-proof containers that are free of damage/corrosion.

8. Exposure controls/personal protection

Appropriate engineering controls: In case of mist generation, enclose the source of mist

generation, or install a ventilation system.

Install eye cleaning and body cleaning equipment near the

handling site.



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Control parameters

The same state						
Ingredient Name	Japan Society for Occupational	ACGIH				
	Occupational Exposure Limits	TLV-STEL	TLV-TWA			
Base Oil(s)		None established	None established	None established		
		ppm, 3mg/m3(Mineral		ppm, 5mg/m3(Mineral Oil		
		Oil Mist)	establishedmg/m3	Mist)		

Personal Protective Equipment

Respiratory Protection: Not needed under normal conditions, but wear a gas mask (against

organic gases) whenever required.

Hand protection: In case of prolonged or repeated exposure, wear oil-resistant

hand protection.

Eye/face protection: In case of exposure to splashes, wear ordinary type goggles. Skin Protection: In case of handling over a prolonged period of time or in case

of exposure to oil, wear oil-resistant, long-sleeved work

clothing.

Hygiene Measures: Take off contaminated clothing and wash thoroughly before reuse.

Wash hands thoroughly after handling.

Initial boiling point - End point No data

9. Physical and chemical properties

Product

Physical state: Liquid
Form: Liquid
Color: Red

Odor: Slight odor

Melting point/freezing Pour Point < -45(°C)

point:

Initial boiling point

point, ileading leaf reint in to (C

and boiling range:

and bolling range.
Flash point: 198(°C)Cleveland Open Cup

Auto-ignition Estimate200-410(°C)

temperature:

Upper/lower Explosion Limit (1-7%)

flammability or

Vapour density: No data.

Density(g/cm3): Density0.85(15 $^{\circ}$ C) Solubility: water: Insoluble.

Partition coefficient: No data.

n-octanol/water:

Decomposition No data.

temperature:

10. Stability and reactivity

Chemical stability: Stable when stored or preserved in a dark place at room temperature. Possibility of hazardous Keep away from any possible contact with strong oxidizing agents.

reactions:



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Conditions to avoid: Contact with incompatible hazard substances

Prolonged heating, open flames, and ignition sources

Use care to keep away from any possible contact with halogens, strong Incompatible materials:

acids, alkalis, and acidifying substances.

Hazardous decomposition When burnt, may release carbon monoxide and other gases.

products:

11. Toxicological information

Product

Acute toxicity (oral): For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Acute toxicity (dermal): For mixtures, hazard category was identified based on

the classification criteria for mixtures. Acute toxicity (inhalation): For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Skin corrosion/irritation: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Serious eye damage/irritation: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

For mixtures, hazard category was identified based on Respiratory sensitization:

the classification criteria for mixtures.

Skin sensitization: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Mutagenicity: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Carcinogenicity: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Reproductive toxicity: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Target organ effect/Single For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Target organ effect/Multi For mixtures, hazard category was identified based on exposure:

the classification criteria for mixtures.

Respiratory toxic: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Ingredient Base Oil(s)

> Acute toxicity (oral): LD50: ≥ 5000 mg/kg[rat] Acute toxicity (dermal): LD50: ≥ 5000 mg/kg[rat] Acute toxicity (inhalation): LC50: ≥ 5 mg/kg[rat] Serious eye damage/irritation: Practically None [rabbit]

Skin sensitization: None Buehler method [guinea pig]

Ames Test: Negative Mutagenicity:

Carcinogenicity: EU: Category 1: R45 need not apply. (NOTE L is

Applicable), IARC:3

12. Ecological information

exposure:

Product



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Ecotoxicity

Fish acute toxicity: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Algae acute toxicity: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Fish chronic toxicity: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Algae chronic toxicity: For mixtures, hazard category was identified based on

the classification criteria for mixtures.

Ingredient Base Oil(s)

Ecotoxicity

Fish acute toxicity: 96hLC50:> 5000 mg/L[Oncorhynchus mykiss]
Daphnia acute toxicity: 48hEC50:> 1000 mg/L[Daphnia magna]

13. Disposal considerations

Disposal Dispose of contents/container in accordance with local/regional/national/international

methods: regulations.

Every customer/user of the product should dispose of industrial waste on its own responsibility, otherwise it must rely on a company authorized by prefectural governor for treating industrial waste or a local public body involved in the disposal of

industrial waste for proper disposal.

Before disposal of used container, remove contents completely.

14. Transport information

IMDG UN classification: Not applicable

Specific security precaution and Transport containers without causing any significant friction or

condition of transportation: shaking.

15. Regulatory information

Korea(KECL): All components are listed or exempted.

Australia(AICS): In the case where one or more components are not listed or, even if

listed, in the case of importing to the country or area concerned, an

application or notification is required.

Canada(DSL): In the case where one or more components are not listed or, even if

listed, in the case of importing to the country or area concerned, an

application or notification is required.

China(IECSC): All components are listed or exempted.

EU(REACH): In the case where one or more components are not listed or, even if

listed, in the case of importing to the country or area concerned, an

application or notification is required.

New Zealand (NZIoC): In the case where one or more components are not listed or, even if

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USA(TSCA): All components are listed or exempted.



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Philippines (PICCS): In the case where one or more components are not listed or, even if

listed, in the case of importing to the country or area concerned, an

application or notification is required.

Taiwan: In the case where one or more components are not listed or, even if

listed, in the case of importing to the country or area concerned, an

application or notification is required.

16. Other information

Disclaimer

We at JX Nippon 0il & Energy Corporation have prepared the copyrighted Safety Data Sheet to provide reference information on the hazardous chemical product of interest for our customers/users to ensure secure and safe handling.

We would like every customer/user of the product to refer to the information and understand the necessity of taking appropriate measures for the actual handling conditions on their own responsibilities for

optimum practical application of the product of interest.

Consequently, the Safety Data Sheet is not intended to guarantee the

safety of the product referenced to herein.