

MSDS: A4037-1129E51EEN

Date Prepared: 2014/11/29

Date Revised:

Product Name: ENEOS ECO-ATF

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

ENEOS ECO-ATF Product Name:

Identification of the

supplier:

JX Nippon Oil & Energy USA Inc.

Address: Charge section: 20 N. Martingale., Suite 325, Schaumburg, IL 60173

(TEL:+1-847-413-2188)

#### 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

No Classification Aspiration hazard

Acute hazards to the aquatic environment Category 3 Chronic hazards to the aquatic environment Category 3

#### LABEL ELEMENTS

Precautionary pictograms: Not applicable Signal word: Not applicable

Hazard Statement: Harmful to aquatic life

Harmful to aquatic life with long lasting effects

No Classification

Precautionary Statements:

Prevention Do not handle until all safety precautions have been read and

Wear protective gloves/protective clothing/eye protection/face

protection.

Do not allow the eyes to become exposed to the product. Do not

swallow the product.

Wash hands thoroughly after handling.

Do no eat, drink or smoke when using this product.

Response IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.

IF ON SKIN: Wash with plenty of soap and water.

Avoid release to the environment.

Storage The product must be stored in a cool, well-ventilated location

where it will not be exposed to direct sunlight.



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Containers that have been opened must be tightly sealed.

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

If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with

usage.

## 3. Composition/information on ingredients

Substance/Mixture: Mixture

Ingredients and Concentration

Ingredient Name	Concentrationwt.%
Base 0il(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.

If skin irritation occurs: Get medical advice/attention.

Eye Contact: 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 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.



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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.

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.



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Use pumps or other proper equipment for taking out from  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

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

Maintain adequate ventilation when handling indoors.

 ${\tt requirements:}$ 

Precautions: 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.

Control parameters

Ingredient Name	Japan Society for Occupational	ACGIH	
	Occupational Exposure Limits	TLV-STEL	TLV-TWA
Base 0il(s)	None established	None established	None established
	3mg/m3(Mineral Oil	ppm, None establishedmg/m3	ppm, 5mg/m3(Mineral Oil Mist)

Personal Protective Equipment

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

organic gases) whenever required.



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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.

### 9. Physical and chemical properties

Product

Physical state: Liquid
Form: Liquid
Color: Red

Odor: Slight odor
Melting point/freezing Pour Point-46(°C)

point:

Initial boiling point Initial boiling point - End point No data

and boiling range:

Flash point: 218( $^{\circ}$ C)Cleveland Open Cup Auto-ignition Estimate200-410( $^{\circ}$ C)

temperature:

Upper/lower flammability Explosion Limit (1-7%)

or explosive limits:

Vapour density: No data. Density(g/cm3): 0.850(15 $^{\circ}$ C) Solubility: water: Insoluble.

Partition coefficient: n-No data.

octanol/water:

Decomposition No data.

 $temperature \\ \vdots$ 

### 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:

Conditions to avoid: Contact with incompatible hazard substances

Prolonged heating, open flames, and ignition sources

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

acids, alkalis, and acidifying substances.

Hazardous decomposition

products:

When burnt, may release carbon monoxide and other gases.



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### 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.

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

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

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]
Serious eye damage/irritation: Practically None [rabbit]

Skin sensitization: None Buehler method [guinea pig]

Mutagenicity: Ames Test:Negative

Carcinogenicity: EU:Category 2: R45 need not apply. (NOTE L is

Applicable), IARC:3

# 12. Ecological information

exposure:

exposure:

Product

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.



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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): 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.

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): All components are listed or exempted.

China(IECSC): 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.

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

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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.

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 Oil & 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.