

SAFETY DATA SHEET

MSDS: A4095-1304

Date Prepared: 2010/07/01

Date Revised: 2013/04/26

Product Name: ENEOS 5W-30 SN/GF-5

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

Product Name: ENEOS 5W-30 SN/GF-5
 Identification of the supplier: JX Nippon Oil & Energy USA Inc.
 Address: 20 N. Martingale Rd., Suite 325, Schaumburg IL 60173
 Charge section: Lubricants Quality Assurance Group
 (TEL: 847-413-2188)

2. Hazards identification

hazard category	Category
Flammable liquids	No Classification
Acute toxicity (oral)	No Classification
Acute toxicity (dermal)	No Classification
Serious eye damage/eye irritation	No Classification
Specific target organ systemic toxicity following single exposure	No Classification
Specific target organ systemic toxicity following repeated exposure	No Classification
Chronic hazards to the aquatic environment	No Classification

LABEL ELEMENTS

Precautionary pictograms:	Not applicable
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.	

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 position comfortable for breathing.
 Cover the body with blankets to keep warm and quiet. If y
 unwell, seek medical advice.

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

SAFETY DATA SHEET

MSDS: A4095-1304

Date Prepared: 2010/07/01

Date Revised: 2013/04/26

Product Name: ENEOS 5W-30 SN/GF-5

Eye Contact:	Wash contaminated clothing before reuse. If skin irritation occurs : Get medical advice/attention. 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, foam and dry sand are effective.
Extinguishing Media to Avoid:	Use of straight steam of water can cause a risk of spread fire.
Specific hazards arising from the chemical:	In some cases of fire, may release irritant gases.
Fire Fighting:	When burnt, may generate carbon monoxide and other toxic gases. 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/flare 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 when 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.
Environmental precautions:	Pay attention to the site of spillage, which is slippery. Prevent spreading of oil spill with earth and sand, sandbags and other proper materials and use care not to allow the oil flow to street drains, sewer systems, and rivers. At sea, install oil spill containment booms to prevent spread 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.

SAFETY DATA SHEET

MSDS: A4095-1304

Date Prepared: 2010/07/01

Date Revised: 2013/04/26

Product Name: ENEOS 5W-30 SN/GF-5

Prevention of second accident:

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.

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 use 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 flame, 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 ventilation system, and/or other proper equipment for the reduction of vapor/mist generation.

Avoid rough handling of containers such as falling, dropping, exposing to shock, and dragging.

Maintain adequate ventilation when handling indoors.

Ventilation requirements: Maintain adequate ventilation when handling indoors.

Precautions: Wash hands and face thoroughly after handling.

Be careful with fire.

Precautions for safe handling: Avoid falling, dropping, exposing to shock, or dragging containers.

Wear protective gloves when opening containers to eliminate risk of hand injury.

Storage

Storage Conditions: Store in a well ventilated, cool, dry, dark place, protected from direct sunlight and keeping away from any potential 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.

SAFETY DATA SHEET

MSDS: A4095-1304

Date Prepared: 2010/07/01

Date Revised: 2013/04/26

Product Name: ENEOS 5W-30 SN/GF-5

Control parameters

Ingredient Name	Japan Society for Occupational Exposure Limits	ACGIH	
		TLV-STEL	TLV-
Highly refined mineral oil	None established ppm, 3mg/m3 (Mineral Oil Mist)	None established ppm, None establishedmg/m3	None estab ppm, 5mg/m3 (Min Mist)

Personal Protective Equipment

Respiratory Protection: Not needed under normal conditions, but wear a gas mask (organic gases) whenever required.

Hand protection: In case of prolonged or repeated exposure, wear oil-resis hand protection.

Eye/face protection: In case of exposure to splashes, wear ordinary type goggl

Skin Protection: In case of handling over a prolonged period of time or in exposure to oil, wear oil-resistant, long-sleeved work cl

Hygiene Measures: Take off contaminated clothing and wash thoroughly before Wash hands thoroughly after handling.

9. Physical and chemical properties

Product

Physical state: Liquid

Form: Liquid

Color: Light brown

Odor: Slight odor

Melting point/freezing point: Pour Point-40(°C)

Initial boiling point and boiling range: Initial boiling point - End point No data

Flash point: 234(°C)Cleveland Open Cup

Auto-ignition temperature: Estimate200-410(°C)

Upper/lower flammability or explosive limits: Explosion Limit (1-7%)

Vapour density: No data.

Density(g/cm3): 0.864(15°C)

Solubility: water : Insoluble.

Partition coefficient: n-octanol/water: No data.

Decomposition temperature: No data.

10. Stability and reactivity

Chemical stability: Stable when stored or preserved in a dark place at room temperatur

SAFETY DATA SHEET

MSDS: A4095-1304

Date Prepared: 2010/07/01

Date Revised: 2013/04/26

Product Name: ENEOS 5W-30 SN/GF-5

Possibility of hazardous reactions:	Keep away from any possible contact with strong oxidizing agents.
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.

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 exposure:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Target organ effect/Multi exposure:	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: $\geq$ 5000 mg/kg[rat]
Acute toxicity (dermal):	LD50: $\geq$ 5000 mg/kg[rat]
Acute toxicity (inhalation):	LC50: $\geq$ 5 mg/kg[rat]
Serious eye damage/irritation:	Practically None [rabbit]
Skin sensitization:	None Buehler method [guinea pig]
Mutagenicity:	Ames Test: Negative
Carcinogenicity:	EU: Category 1 : R45 need not apply. (NOTE L is Applicable), IARC:3

12. Ecological information

SAFETY DATA SHEET

MSDS: A4095-1304

Date Prepared: 2010/07/01

Date Revised: 2013/04/26

Product Name: ENEOS 5W-30 SN/GF-5

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.
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 methods: Dispose of contents/container in accordance with local/regional/national/international 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 government 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 condition of transportation:		Transport containers without causing any significant friction or 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 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 in the case of importing to the country or area concerned, an application or notification is required.
China (IECSC) :	In the case where one or more components are not listed or, even 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 in the case of importing to the country or area concerned, an application or notification is required.

SAFETY DATA SHEET

MSDS: A4095-1304

Date Prepared: 2010/07/01

Date Revised: 2013/04/26

Product Name: ENEOS 5W-30 SN/GF-5

New Zealand(NZIoC) :	In the case where one or more components are not listed or, even i in the case of importing to the country or area concerned, an appl or notification is required.
USA(TSCA) :	All components are listed or exempted.
Philippines(PICCS) :	All components are listed or exempted.
Taiwan :	In the case where one or more components are not listed or, even i in the case of importing to the country or area concerned, an appl or notification is required.

16. Other information

Disclaimer	We at JX Nippon Oil & Energy Corporation have prepared the copyrig Safety Data Sheet to provide reference information on the hazardou chemical product of interest for our customers/users to ensure sec safe handling. We would like every customer/user of the product to refer to the information and understand the necessity of taking appropriate mea the actual handling conditions on their own responsibilities for o practical application of the product of interest. Consequently, the Safety Data Sheet is not intended to guarantee t of the product referenced to herein.
------------	---

26E31EEN

.n a
ou feel

26E31EEN

move
continue
al
of water.

re foam,
ling

gases.
fire and
enty of

ive
ous
ever

rent

bags, or
spill to
reading

by
ber

26E31EEN

ikment to
oty

;
und

make
pletely,

umes, and
apor

do not

rent

i, local
sources

ing,

of

ite a

sting
ignition

mination

sion.

,

26E31EEN

TWA
lished
eral Oil

against

stant

es.

case of
othing.

reuse.

e.

26E31EEN

ong

sed on

sed on

sed on

sed on

sed on

sed on

sed on

sed on

sed on

sed on

sed on

sed on

sed on

26E31EEN

sed on

sed on

sed on

sed on

lonal

ernor for
strial

tion or

f listed,
ication

f listed,
ication

f listed,
ication

f listed,
ication

26E31EEN

f listed,
ication

f listed,
ication

hted
s
ure and

sures for
ptimum

he safety