SAFETY DATA SHEET

Product Name: ENEOS 5W-40 SN C3

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

1.1. Product identifier
Product name: ENEOS 5W-40 SN C3

1.2. Relevant identified uses of substance or mixture and uses advised against

Recommended use: General industrial application

1.3. Details of the supplier of the safety data sheet
Identification of the supplier: JX Nippon Oil & Energy USA Inc.
Address: 20 N. Martingale Rd. Suite 325, Schaumburg, IL 60173
Charge section: (TEL:+1-847-413-2188)

2. Hazards identification
Classification according to Regulation (EC) No. 1272/2008 (CLP)

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Hazard category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>No Classification</td>
</tr>
<tr>
<td>Acute toxicity (oral)</td>
<td>No Classification</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>No Classification</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity</td>
<td>No Classification</td>
</tr>
<tr>
<td>following single exposure</td>
<td></td>
</tr>
<tr>
<td>Specific target organ systemic toxicity</td>
<td>No Classification</td>
</tr>
<tr>
<td>following repeated exposure</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No Classification</td>
</tr>
</tbody>
</table>

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 (CLP)

<table>
<thead>
<tr>
<th>Hazard pictograms:</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal word:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Hazard statement:</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Precautionary statements:

Prevention: Do not handle until all safety precautions have been read and understood. (P202)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)
Do not allow the eyes to become exposed to the product. Do not swallow the product.
Wash hands thoroughly after handling.
SAFETY DATA SHEET

Product Name: ENEOS 5W-40 SN C3

Do not eat, drink or smoke when using this product. (P270)

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. (P301+P310)
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. (P301+P330+P331)
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. (P302+P352)

Storage The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.

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.

2.3. Other hazards

PBT or vPvB: Not applicable

3. Composition/information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures

Ingredients and Concentration

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Oil(s)</td>
<td>70–80</td>
<td>74869–22–0</td>
</tr>
<tr>
<td>Additives</td>
<td>&lt;30</td>
<td>–</td>
</tr>
</tbody>
</table>

4. First aid measures

4.1. Description of first aid measures
**SAFETY DATA SHEET**

**Product Name:** ENEOS 5W-40 SN C3

**5. Firefighting measures**

**5.1. Extinguishing media**

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 stream of water can cause a risk of spreading fire.

**5.2. Special hazards arising from the substance or mixture**

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.

**5.3. Advice for fire-fighters**
SAFETY DATA SHEET

Product Name: ENEOS 5W-40 SN C3

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency measures

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.

6.2. 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.

6.3. Methods and material 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.

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.

6.4. Reference to other sections

Special protective equipment and precautions for fire fighters:

- Wear fire/flame resistant/retardant clothing. (P283)
- 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.

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.
7. Handling and storage

7.1. Precautions for safe 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: 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 of containers.

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

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end use(s)

General industrial application

8. Exposure controls/personal protection
8.1. Control parameters

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Japan Society for Occupational Health</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Occupational Exposure Limits</td>
<td>TLV-STE</td>
</tr>
<tr>
<td>Base Oil(s)</td>
<td>-ppm -mg/m3</td>
<td>-ppm -mg/m3</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

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.

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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Yellow</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight odor</td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td>Pour Point-39(℃)</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

10.1. Reactivity
Not Reactive

10.2. Chemical stability
Stable when stored or preserved in a dark place at room temperature.

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

10.4. Conditions to avoid
Contact with incompatible hazard substances
Prolonged heating, open flames, and ignition sources

10.5. Incompatible materials
Use care to keep away from any possible contact with halogens, strong acids, alkalis, and acidifying substances.

10.6. Hazardous decomposition products
When burnt, may release carbon monoxide and other gases.
11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics:
May cause allergic skin reaction. Dermatitis. Rash.

Delayed and immediate effects and also chronic effects from short- and long- term exposure:
Short term exposure:
Potential immediate effects: No information
Potential delayed effects: No information
Long term exposure:
Potential immediate effects: No information
Potential delayed effects: No information

11.1. Information on toxicological effects

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.
SAFETY DATA SHEET

Product Name: ENEOS 5W-40 SN C3

11.2. Other information

Product

No information for mixtures.

Ingredient

Base Oil(s)

Acute toxicity (oral): LD₅₀ > 5000 mg/kg [rat]
Acute toxicity (dermal): LD₅₀ > 2000 mg/kg [rabbit]
Acute toxicity (inhalation): LC₅₀ 2.18 mg/L [rat]
Serious eye damage/irritation: Practically None
Skin sensitization: None  Buehler method  [guinea pig]
Mutagenicity:  Ames Test: Negative
Carcinogenicity:  EU: Category 2 : R45

12. Ecological information

12.1. Toxicity

Ecotoxicity

Fish acute toxicity: For mixtures, hazard category was identified based on the classification criteria for mixtures.

Base Oil(s)

96hLC₅₀ > 5000 mg/L [Oncorhynchus mykiss]

Algae acute toxicity: For mixtures, hazard category was identified based on the classification criteria for mixtures.
SAFETY DATA SHEET

Product Name: ENEOS 5W-40 SN C3

13. Disposal considerations

13.1. Waste treatment 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 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.

13.2. Other information
No additional information

14. Transport information

14.1. UN Number:
IATA UN number: Not applicable
IMDG UN number: Not applicable

14.2. UN proper shipping name:
IATA Proper shipping name: Not applicable
IMDG Proper shipping name: Not applicable

14.3. Transport hazard class(es):

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.

12.2. Persistence and degradability
Persistence and degradability: No information for mixtures.

12.3. Bioaccumulative potential
Bioaccumulative potential: No information for mixtures.

12.4. Mobility in soil
Mobility in soil: No information for mixtures.

12.5. Results of PBT and vPvB assessment
Not applicable

12.6. Other adverse effects
Other impact: No information for mixtures.
SAFETY DATA SHEET

Product Name: ENEOS 5W-40 SN C3

14.4. Packing group:
IATA Packing group: Not applicable
IMDG Packing group: Not applicable

14.5. Environmental hazards:
Marine pollutant: Not applicable

14.6. Special precautions for user:
Transport containers without causing any significant friction or shaking.

14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code:
Not applicable

15. Regulatory information

US California Proposition 65
None of the ingredients is listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA TitleIII)
None present or none present in regulated concentrations.

15.1. Safety, health and environmental regulations/legislation specific for the substance
EU regulations

Australia(AICS) : All components are listed or exempted.
Canada(DSL) : All components are listed or exempted.
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.

Korea(KECL) : All components are listed or exempted.
New Zealand(NZIoC) : All components are listed or exempted.
Philippines(PICCS) : All components are listed or exempted.
Taiwan(TCSI) : Not applicable
USA(TSCA) : All components are listed or exempted.

15.2. Chemical safety assessment
Not conducted

16. Other information
SAFETY DATA SHEET

Product Name: ENEOS 5W-40 SN C3

NFPA
Health hazard rating blue: 0, Flammability hazard rating: 1

HMIS
Health Ratings: 0, Flammability Ratings: 1

Date Prepared: 11/28/2017

Date Revised:

Disclaimer:
We at JXTG 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.