Date: 29 May, 2006 MSDS identifier: 47778 Revision: 1

1. Product and company identification

Product name

**ENEOS Motor Oil 0W-20** 

Use

Gasoline Engine Oil Nippon Oil (U.S.A.) Ltd.

Supplier

3625 Del Amo Boulevard, Suite 385, CA 90503

Telephone

310-214-2050

**Emergency telephone** 

310-214-2050 or 630-875-9701

Manufacturer

Nippon Oil Corporation, Nishi Shimbashi 1-chome, Minato-ku,

Tokyo, 105-8412 Japan

### 2. Hazards identification

**Emergency overview** 

Brown liquid, slight odour. Caution! - prolonged or repeated

contact with skin may cause irritation in some cases.

Precautionary measures

Avoid breathing vapor and mist. Keep container closed.

Avoid contact with eyes, skin, and clothing.

**OSHA** regulatory status

This material is not considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Potential health effects

Inhalation:

Vapor or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying.

heating the material, or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and

throat, headache, nausea, and drowsiness.

Skin:

May cause minimal skin irritation. Product contains low levels

(<1%) of a sensitizing substance, which may cause skin

reactions in some individuals.

Eyes:

May cause minor irritation.

Ingestion:

May cause abdominal discomfort, nausea, or diarrhea.

Chronic properties:

If prolonged exposure occurs, nausea, headache, diarrhea, and

physical discomfort. None of the ingredients are designated

carcinogens (OSHA, NTP, IARC).

See Section 11 for toxicological information.

Potential environmental

effects

The product is an insoluble oil and may produce a visible

sheen on water.

See Section 12 for ecological information.

## 3. Composition/information on ingredients

**Declarable components** 

Conc (%)

None

Other components

Base oil

Other additives

>85 <15

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4. First-aid measures

**Inhalation** Remove exposed person to fresh air if adverse effects (eg

dizziness, drowsiness, or respiratory irritation) occur. Obtain

medical attention for symptoms of difficulty in breathing.

Skin contact Wash affected area with soap and water. Get medical

attention if irritation occurs. Launder contaminated clothing

before re-use.

Eye contact In case of contact with eyes, irrigate with water for 15

minutes. Seek medical advice, especially if irritation occurs or

symptoms persist.

**Ingestion** If swallowed, wash out mouth thoroughly and give water to

drink. Seek medical attention and show this safety data sheet.

Do not induce vomiting, unless instructed by medical

personnel.

**Note to physicians** Give symptomatic treatment and supportive therapy.

5. Fire-fighting measures

Fire and explosive properties The product is not flammable, but may burn if involved in a

fire. The product does not have explosive properties.

**Extinguishing media** Carbon dioxide, dry chemical and foam are recommended. Be

aware that product will float on water. Water jets may spread fire, or cause splattering. Remove containers from fire or cool

them with water.

Specific hazards When burned, product may form smoke, and toxic fumes,

gases or vapours.

**Protection of firefighters** Fire fighters should wear an approved self-contained

breathing apparatus and full protective clothing.

6. Accidental release measures

Personal precautions Wear appropriate protective clothing (See Section 8),

including respiratory protection, during removal of large

spillages.

Containment and

environmental precautions 5

Product is not classified as environmentally hazardous. Stop the source of leak or release. Prevent leakage into the

drainage system by bunding, or diking with sand or other

absorbent material.

Method for clean-up Clean up spill as soon as possible, using appropriate

techniques such as absorption with inert materials or pumping. Where feasible and appropriate, remove contaminated soil. Collect spill for disposal and place in suitable container for disposal in accordance with local and federal regulations.

Wash contaminated surfaces with detergent. Follow

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prescribed procedures for responding to larger spills and reporting to appropriate authorities.

### 7. Handling and storage

Information for safe handling Avoid contact with skin and eyes. Wear protective clothing as

in Section 8. Do not weld, heat or drill container. Maintain minimum feasible handling temperature. Water contamination should be avoided. Caution: do not use pressure to empty drum, or drum may rupture with explosive force. Emptied container may still contain material, which may ignite with

explosive violence if heated sufficiently.

Storage

Exposure to high temperatures should be avoided. Keep

container closed when not in use.

### 8. Exposure controls/personal protection

**Exposure guidelines** When mists/aerosols can occur: ACGIH TLV (oil mist), 5

mg/m<sup>3</sup>; ACGIH STEL (oil mist), 10 mg/m<sup>3</sup>.

Engineering controls No special ventilation is usually necessary. Good general

ventilation is recommended. However, if operating conditions create high airborne concentrations, appropriate local exhaust

ventilation may be needed.

Personal protective

equipment

Avoid skin contact by wearing chemical resistant gloves (eg nitrile). Wear chemical safety goggles or face shield if

splashing possible. Where more extensive contact may occur, wear suitable protective clothing (eg apron, sleeves, boots). Wear suitable respiratory protective equipment (breathing

mask) if exposure to vapour is likely.

General hygiene Avoid contact with skin and eyes. Wash thoroughly after

handling.

### 9. Physical and chemical properties

Appearance

Light brown liquid

Odour

Slight

Pour point

<-35 °C

Boiling range

No data available

Flash point (typical)

Explosive properties

> 200 °C (COC)

Explosive properties Autoignition temperature None identified No data available

Vapour pressure

No data available 0.85 g/cm<sup>3</sup> at 15 °C

Density

7 1 1 1 1

Solubility: in water

Insoluble

Partition coefficient

No data available

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DMSO Extract (base oil) < 3% (IP 346)

10. Stability and reactivity

Chemical stability Stable under recommended storage and handling

conditions. No hazardous polymerisation.

Conditions to avoid Incompatible materials

Avoid prolonged storage at high temperature.

Acids, oxidising agents, acids, halogens and halogenated

compounds.

Hazardous decomposition

products

Thermal decomposition may produce smoke, carbon

monoxide, aldehydes and other products of

incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Under combustion conditions, oxides of the following elements

will also be formed: calcium, sulfur, and zinc.

# 11. Toxicological information

The product has not been tested for toxicological effects.

Acute toxicity  $LD_{50}$  (oral) believed to be > 5000 mg/kg (practically non-

toxic). LD<sub>50</sub> (dermal) believed to be > 3000 mg/kg (practically

non-toxic)

Corrosivity/irritation

No data available

Sensitisation

A minor component (< 1%) has been identified as a skin

sensitiser.

Repeated-dose toxicity

No data available

Mutagenicity/Carcinogenicity/Reproductive toxicity No component has been identified as possessing these

properties.

### 12. Ecological information

The product has not been tested for ecological effects.

**Toxicity** 

A minor component (< 1%) has been identified as toxic to

aquatic organisms.

**Mobility** 

The product is an insoluble liquid, and floats on water.

Persistence/degradability

No information available.

**Bioaccumulation** 

No information available

# 13. Disposal considerations

Product is suitable for disposal by incineration or by an oil recycling facility. Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste, and their disposal may be controlled through corresponding local, state or federal laws. Local regulations may be more stringent than national requirements. The hazards

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of the waste may differ from that of the product, and it is the responsibility of the waste generator to identify hazards and dispose wastes in compliance with applicable regulations.

### 14. Transport information

This product is not regulated by the Department of Transport (DOT).

### 15. Regulatory information

#### Regulatory status:

US:

TSCA: All components of this material are listed in the TSCA inventory. CWA: This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110). Discharge that produces a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported. CERCLA: This product is not subject to any special reporting under the requirements of the Comprehensive Environmental Response Compensation and

Liability Act. Local reporting requirements may be in force.

Sara Title III: This product is not hazardous. The product contains no

reportable ingredients above 1%.

EU:

All components of this material are listed on EINECS inventory.

Classification and labelling: not classified

Canada:

All components of this material are listed on the DSL inventory.

Australia: Korea: All components of this material are listed on the AICS inventory. All components of this material are listed on the TCCL inventory.

Philippines:

All components of this material are listed on the PICCS inventory.

## 16. Other information

This MSDS has been revised in all section(s) compared to previous versions.

#### References

- 1. Handbook of Toxic and Hazardous Chemicals and Carcinogens (2<sup>nd</sup> ed.)
- 2. Registry of Toxic Effects of Chemical Substances (NIOSH, 1983).

Disclaimer: Material safety data sheets are provided as reference information on the safe handling of hazardous or harmful materials to companies using such materials. When referring to this data sheet, companies should remember that they must take responsibility for implementing the proper measures for their own particular situations. This data sheet is not a guarantee of safety.