

# SAFETY DATA SHEET

Revision: 23 August 2011

SDS No. 46444

Version number: 1

## Section 1: Identification of the substance/mixture and company/undertaking

<b>1.1 Product identifier</b>	ENEOS PREMIUM MOTOR OIL SUSTINA 5W40
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	Gasoline engine oil. No uses advised against.
<b>1.3 Details of the supplier of the safety data sheet</b>	JX Nippon Oil & Energy Europe Limited. 4th Floor, 4 Moorgate, London EC2R 6DA, U.K.
<b>1.4 Telephone number</b>	+44-20-7186-0400
<b>1.5 FAX number</b>	+44-20-7186-0419

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Skin Sens 1, H317

Classification according to Directive 1999/45/EC Xi, R43

### 2.2 Label elements



Signal word Warning

Hazard statements May cause an allergic skin reaction

Precautionary statements

prevention Avoid breathing mist/vapours/spray  
Wear protective gloves

response If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse

storage None

disposal Dispose of contents/container to incineration or recycling in accordance with local/national regulation.

Supplemental information None.

### 2.3 Other hazards

The hazards of some ingredients have not been well investigated, so handle and dispose of with caution.

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## Section 3: Composition/information on ingredients

### 3.2 Mixtures<sup>a,b</sup>

<i>Declarable ingredients</i>	<i>Conc. (wt%)</i>	<i>EC No.</i>	<i>CAS No.</i>	<i>Reg. No.</i>	<i>Classification</i>	
					67/548/EEC	1272/2008
Molybdenum compound	1–5	NA	NA	NA	Xi (irritant), R38-43; R52-53	Skin Irrit 2, H315; Skin Sens 1, H317; Aquatic Chronic 3, H412
Zinc dihexyl phosphate	1–5	NA	NA	NA	Xi (irritant), R36; R52-53	Eye Irrit 2, H319; Aquatic Chronic 3, H412

### Other ingredients

Synthetic oil <sup>c</sup>	>75	NA	NA			
Additives	<25					

<sup>a</sup> NA: not available.

<sup>b</sup> See Section 16 'Other information' for full text of the R- and H-phrases.

<sup>c</sup> DMSO extract <3% by IP346, so classification as a carcinogen does not apply.

## Section 4: First aid measures

### 4.1 Description of first aid measures

Inhalation	If inhalation of the product is suspected, remove exposed person to fresh air, and give rest. Get medical attention if symptoms persist.
Skin	Remove contaminated clothing and wash affected area thoroughly with soap and water. If irritation or rash occurs, or contamination is severe, get medical attention. Launder contaminated clothing before re-use.
Eye	In case of contact with eyes, irrigate with water for 15 minutes, occasionally lifting eyelids. Remove any contact lenses if easy to do. Get prompt medical attention if irritation occurs.
Ingestion	If swallowed, wash out mouth thoroughly and give water to drink. Get immediate medical attention. Do not induce vomiting, unless instructed by medical personnel.

**4.2 Most important symptoms and effects, both acute and delayed** May cause skin allergy (dermatitis).

**4.3 Indication of any immediate medical attention and special treatment needed** Treat symptoms as they occur.

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## Section 5: Firefighting measures

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### 5.1 Extinguishing media

Suitable Water spray, carbon dioxide, dry chemical, foam, and sand are compatible with the product.

Unsuitable Product will float on water, and water jets may cause spattering and spread fire.

**5.2 Special hazards arising from the substance or mixture** The product is not classified as flammable, but will burn if involved in a fire, producing smoke, and toxic fumes, gases and vapours.

**5.3 Advice for firefighters** Remove containers from fire or cool them with water spray. Firefighters should wear an approved self-contained breathing apparatus and full protective clothing.

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## Section 6: Accidental release measures

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**6.1 Personal precautions, protective equipment and emergency procedures** For large-scale spills, ensure full personal protection is worn. Keep unauthorised personnel from the spillage area. Ventilate area. Product may produce a slip hazard. Follow prescribed procedures for responding to large spills and reporting to authorities.

**6.2 Environmental precautions** Prevent leakage of product into water-courses or drainage system by bunding, or diking with absorbent material.

**6.3 Methods and material for containment and cleaning up** Stop the source of leak or release. Small spills can be mopped up with dry cloth. Collect larger spill using techniques such as sorbent materials or pumping. Collect spill and place in suitable container for disposal. Wash contaminated surfaces with water and detergent, and collect washings for safe disposal.

**6.4 Reference to other sections** For recommended personal protective equipment, see Section 8. For disposal considerations, see Section 13.

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## Section 7: Handling and storage

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**7.1 Precautions for safe handling** Avoid skin and eye contact with the product, and inhalation of vapours, using measures as described in Section 8. Use only in a well ventilated area. Wash hands after use.

**7.2 Conditions for safe storage, including any incompatibilities** Avoid contamination of the product with water. Do not store for long periods at high temperature. Store in a cool, dry, well-ventilated place, away from direct sunlight. Keep container closed when not in use.

**7.3 Specific end use(s)** Not available.

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## Section 8: Exposure controls/personal protection

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**8.1 Control parameters**

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EU limit values	None
UK limit values	None.
Other: human health (DNELs, DMELs)	Not available.
Other: environmental (PNEC)	Not available.

## 8.2 Exposure controls

Engineering controls	No special ventilation is usually necessary. Good general ventilation is recommended. However, if operating conditions (eg heating, spraying, or use in confined space) create high airborne concentration, local exhaust ventilation may be needed.
Personal protective equipment	For professional use, the need for personal protective equipment should be based on a workplace risk assessment for the particular use.  Avoid skin and eye contact by wearing chemical resistant gloves (eg nitrile or Viton) and safety goggles. For handling larger volumes, wear further protective clothing (eg overalls, apron, sleeves). Wear respiratory protective equipment if exposure to mists or vapours is likely, eg through spraying or heating. PPE should be to European (EN) standards. Consult manufacturers concerning breakthrough times.
Environmental exposure controls	Not available.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Brown liquid
Odour	Slight
Odour threshold	Not available
pH	Not available
Melting/freezing point	-45 °C (pour point)
Initial boiling point/range	Not available
Flash point	234 °C (Cleveland open cup)
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Flamm. or expl. limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0.847

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Solubilities	Insoluble in water
Partition coeff. ( $K_{ow}$ )	Not available
Auto-ignition temp.	Not available
Decomposition temp.	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
<b>9.2 Other information</b>	None

## Section 10: Stability and reactivity

<b>10.1 Reactivity</b>	Not available.
<b>10.2 Chemical stability</b>	Stable under recommended storage and handling conditions.
<b>10.3 Possibility of hazardous reactions</b>	No hazardous polymerisation.
<b>10.4 Conditions to avoid</b>	Prolonged exposure to high temperature and contamination with water.
<b>10.5 Incompatible materials</b>	Acids, bases, and oxidizing agents.
<b>10.6 Hazardous decomposition products</b>	Not available.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity	The product is not expected to meet the criteria for classification by the oral, dermal or inhalation routes.
Skin corrosion/irritation	The product is not expected to meet the criteria for classification as a skin irritant.
Serious eye damage/irritation	The product is not expected to meet the criteria for classification as an eye irritant.
Respiratory or skin sensitisation	No information available on respiratory sensitisation. The product contains skin sensitising ingredients so that the product is expected to meet the criteria for classification.
Germ cell mutagenicity	Not classified due to lack of data.
Carcinogenicity	Not classified due to lack of data. The oil ingredients are not classified for carcinogenic effects, on the basis that the DMSO extract is <3%, so that the classification as carcinogen does not apply.
Reproductive toxicity	Not classified due to lack of data.

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STOT-single exposure	Not classified due to lack of data.
STOT-repeated exposure	Not classified due to lack of data.
Aspiration hazard	Not classified due to lack of data.

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## Section 12: Ecological information

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<b>12.1 Toxicity</b>	The product is not expected to be harmful to aquatic organisms on the basis of available information on ingredients.
<b>12.2 Persistence and degradability</b>	Not expected to be readily biodegradable.
<b>12.3 Bioaccumulative potential</b>	Not available.
<b>12.4 Mobility in soil</b>	Not available.
<b>12.5 Results of PBT and vPvB assessment</b>	Not available.
<b>12.6 Other adverse effects</b>	The product is water-insoluble and oil-based, and may form a sheen on water

## Section 13: Disposal considerations

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<b>13.1 Waste treatment methods</b>	<p>Incineration or recycling are recommended for disposal of this product. This product is not suitable for landfill or disposal via the drains. Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste. General EU requirements are given in Directive 2008/98/EC, including procedures for the disposal of waste oils.</p> <p>Wastes of this product are covered in the European Waste Catalogue, suggested code 13 02 05, mineral-based, non-chlorinated engine, gear and lubricating oils.</p> <p>The hazards 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.</p> <p>Containers of this material may be hazardous when emptied due to product residue. All hazard precautions given in this data sheet must be observed for empty containers.</p>
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## Section 14: Transport information

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<b>14.1 UN Number</b>	Not classified as dangerous goods according to UN criteria.
<b>14.2 UN proper shipping name</b>	Not applicable.
<b>14.3 Transport hazard class(es)</b>	Not applicable.

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<b>14.4 Packing group</b>	Not applicable.
<b>14.5 Environmental hazards</b>	Not classified as environmentally hazardous.
<b>14.6 Special precautions for user</b>	Not available.
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

## Section 15: Regulatory information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	<p>UK: Control of Substances Hazardous to Health Regulations 2002 (COSHH).</p> <p>Workplace Exposure Limits EH40/2005, with 2007 supplement, Health and Safety Executive.</p>
<b>15.2 Chemical safety assessment</b>	Not available.

## Section 16: Other information

Revisions	This SDS is the first version in EU format.
Abbreviations	DNEL, derived no-effect level; DMEL, derived minimum effect level; STOT RE, specific organ toxicity repeated exposure; STOT SE, specific target organ toxicity single exposure.
References	<p>Annex VI of Regulation 1272/2008 on <i>Harmonised Classification and Labelling for Certain Hazardous Substances</i>.</p> <p>Existing Chemical Substances Information System (ESIS) available at the European Chemical Bureau website: <a href="http://ecb.jrc.ec.europa.eu/esis/">http://ecb.jrc.ec.europa.eu/esis/</a>.</p> <p>Supplier safety data sheets.</p> <p>CONCAWE Compilation of Selected Physical-Chemical Properties of Petroleum Substances and Sulfur; report number 6/10; November 2010 (CONCAWE is the European Oil Companies' Association for Environmental, Health and Safety in Refining and Distribution).</p> <p>Petroleum Products – First Aid Emergency and Medical Advice; CONCAWE, report number 1/97; March 1997.</p>
Basis of classification	The mixture is self-classified on the basis of available information on the ingredients.
List of R-phrases	R36, irritating to eyes; R38, irritating to skin; R43, may cause sensitisation by skin contact; R52, harmful to aquatic organisms; R53, may cause long-term adverse effects in the aquatic environment; R65, harmful: may cause lung damage if swallowed.
List of hazard statements	H315: Causes skin irritation; H317: May cause an allergic skin reaction; H319: Causes serious eye irritation; H412: Harmful to aquatic life with long lasting effects.

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Training advice

None

*Disclaimer.* 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.