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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier	ENEOS PREMIUM 20W50
1.2	Use	Synthetic engine oil.
1.3	Details of the supplier of	JX Nippon Oil & Energy Europe Limited.
	the safety data sheet	4th Floor, 4 Moorgate, London EC2R 6DA, U.K.
1.4	Telephone number	+44-20-7186-0400
1.5	FAX number	+44-20-7186-0419

2 HAZARDS IDENTIFICATION	
Classification system	: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
Hazard classification	 This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.
Other hazards	
Human health hazards	: Prolonged or repeated contact may cause skin to become dry or cracked.
Physical/chemical hazards	: None.
Environmental hazards	: This product floats on water and may affect the oxygen-balance in the water.
Primary route of exposure	: Skin and eyes contact.
Effects and symptoms	
- Inhalation	: At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
- Skin contact	 Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. High-pressure injection under skin may cause serious damage.
- Eye contact	 Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
- Ingestion	: Bad taste. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Note	: USED ENGINE OILS: Used engine oil may contain hazardous components which have the potential to cause skin cancer.See Toxicological Information, section 11 of this Safety Data Sheet.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Preparation

: Preparation.

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Chemical characterization	: Mineral oil	and additive	S.			
Components	: This product is not hazardous but contains hazardous components.					
Composition	 Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC / Substances for which there are Community workplace exposure limits : 					
Substance name	Conc. (wt%)	CAS No	EC No	Annex No	Classification	
Zinc alkyl dithiophosphate	Between 1 and 5 %	68649-42-3	272-028-3		Xi; R38-41 N; R51-53	
p-Dodecylphenol :	Between 0.1 and 1 %		310-154-3		Xn; R62 Xi; R38 N; R50-53	
Other information	The base of	oil contains le	ess than 39	% DMSO-extr	e listed in section 8. act measured according IP 346, use cancer" (Note L).	
Text of R-Phrases	: See Headi	ng 16.				
4 FIRST AID MEASURES						
- General information	: Seek medi	cal attention	if ill effect	develops.		
- Inhalation		rictim to rest. sh air breathi	ng.			
- Skin contact	water, follo High press	wed by warn	n water rin of produc	se. t into the skin	d skin area with mild soap and may lead to local necrosis if the	
- Eye contact	Ensure ad	ly with plenty	ng of eyes	by separatin	g eyelids with the fingers. Rinse al attention if pain, blinking or	
- Ingestion	Vomitting a severe lun	occurs spon after ingestio gdamage or	taneously, n may cau death.	keep head b	elow the hips to prevent aspiration into the lungs, which may cause	
Note to physician	: Treat symp					
5 FIRE-FIGHTING MEASURES						
Specific hazards	: When expo	osed to heat,	may deco	mpose libera	ting hazardous gases.	
Hazardous combustion products	-		-	-		
•	CO, CO2,	POx, NOx, S				
				fumes will be	present.	

- Suitable extinguishing media : Water fog. Dry powder. Carbon dioxide. Foam.

- Oultable extinguishing media	
- Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.
Special procedures	 Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Special protective equipment for fire fighters	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.

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6 ACCIDENTAL RELEASE MEASURES

Personal precautions	 When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. Spill area may be slippery. Equip cleanup crew with proper protection.
Environmental precautions	 Stop the flow of material, if possible without risk. Dike spilled material, where this is possible. Recover the cleaning water for later dis posal. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Clean up methods	: Take up large spills with pump or vacuum. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- on water	: On water, recover/skim from surface and pour out in disposal container.
- on soil	: Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.
Contaminated product, soil, water	: Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.

7 HANDLING AND STORAGE	
General Precautions in handling and storage	 Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes.
Storage	 Always keep in containers of same material as the original one. Do not store in open or unlabelled containers. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.
Storage life	: 5 years.
Storage - away from	: Strong oxidizing agents. Strong acids.
Handling	 Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Wash clothing before re-using. Where contact with eyes or skin is likely, wear suitable protection.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits Industrial hygiene	 Exposure-value for oil mist: 10 mg/m3 (15 min.) or 5 mg/m3 (8 hours). Do not put the product-soaked rags into the pockets of working clothes. Do not use cloths stained with the product to dry hands. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Wash clothing before re-using. When using, do not eat, drink or smoke.
- Respiratory protection	 Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.



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8 EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

- Hand protection	tim Pro ca A c 65 pro	spiratory protective equipment ie it is worn. bvided an air-filtering/air-purifyin in be used for mist or fume. Use combination filter for particles a °C) may be required if vapour of bduct temperature. Use filter typ case of repeated or prolonged	ng respirator is suita e filter type P or con and organic gases a or abnormal odour is be AP or comparabl	able, a filter for particulates nparable standard. Ind vapours (boiling point > s also present due to high e standard.
	Th is Th	e gloves should be replaced in recommended to use preventat e protection glove should be te ength, product compatibility, ar	nmediately in case of tive skin protection (ested for its specific	of damage or signs of wear. It (skin cream). suitability (e.g. mechanical
Material	Thickness (mm)	Breakthrough time (min)	Level	according
Nitril.	0.4	480	6	EN 374
Neoprene.(chloroprene)	0.65	60	3	EN 374
- Eye protection	Ey	fety glasses with side shields. e protection should only be neo rayed.		
- Skin protection	col Av If r	special clothing/skin protection nditions of use. oid repeated or prolonged skin epeated skin contact or contan buld be worn.	contact.	
Environmental Exposure	Controls : Se	e Heading 6. See Heading 12.		

9 PHYSICAL AND CHEMICAL PROPERTIES

: Oily liquid.
: Amber.
: Characteristic.
: < -24
: > 280
: 0.88
: < 0.01
: >1
: 100 - 300
: 300 - 700
: Not miscible with water.
: > 200
: > 240
: 0.6
: 7
: > 3
: < 0.1

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10 STABILITY AND REACTIVITY	
Stability and reactivity	: Stable under normal conditions.
Hazardous decomposition products	: On exposure to high temperature, may decompose, releasing toxic/flammable
	vapours. CO, CO2, POx, NOx, SOx, H2S. Metal oxides.
Hazardous reactions	: None under normal conditions.
Hazardous polymerization	: Will not occur.
Materials to avoid	: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Conditions to avoid	: See Heading 6. See Heading 7. See Heading 15.
11 TOXICOLOGICAL INFORMATION	
Basis for Assessment	: Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products.
Toxicokinetics, metabolism and distribution	: No data available.
Acute effects (acute toxicity, irritation and corrosivity)	
- Acute toxicity	: At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
On product	
- Irritation	: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
- Corrosivity	: No data available.
CMR effects	
- Carcinogenity	: Unknown.
- Mutagenicity	: Unknown.
 Reproductive and Developmental Toxicity 	: Unknown.
Repeated dose toxicity	: Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. Repeated dermal contact with material can lead to defatting of the skin.
- Other	: The base oil contains less than 3% DMSO-extract measured according IP 346, therefor it is NOT classified as T/R45: "May cause cancer" (Note L). High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.
12 ECOLOGICAL INFORMATION	

Basis for Assessment	 Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.
Ecological effects information	
On product	: This product floats on water and may affect the oxygen-balance in the water.
Ecotoxicity	: No data available.

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12 ECOLOGICAL INFORMATION (continued) --On product **Bioaccumulative potential** : This product is not expected to bioaccumulate through food chains in the environment. Persistence - degradability : Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment. VOC -(g/l) : None. (Volatile organic compounds) : Not miscible with water. Mobility Spillages may penetrate the soil causing ground water contamination. Results of PBT assessment : Unknown. **Other Adverse Effects** : Unknown. 13 DISPOSAL CONSIDERATIONS : Avoid release to the environment. Dispose of this material and its container at General hazardous or special waste collection point. Industrial waste number : 13 02 05 - Mineral-based non-chlorinated engine, gear and lubricating oils. (Hazardous waste pursuant to Directive 91/689/EEC on hazardous waste) Contaminated packaging : Dispose in a safe manner in accordance with local/national regulations. After use, this oil must be sent to a used oil collecting location. Special precautions Every mixture with foreign substances such as solvents, brake- and cooling liquids is forbidden. Incorrect disposal of used oil endangers the environment. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. When not empty dispose of this container at hazardous or special waste collection point. **14 TRANSPORT INFORMATION** : Not classified as hazardous for transport (ADR/RID, ADNR, IMDG, ICAO/IATA) General information **15 REGULATORY INFORMATION EC Classification** : This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted. Symbol(s) : None. R Phrase(s)

: None.

: None.

: Safety data sheet available for professional user on request.

 National provisions Germany

S Phrase(s)

Further Phrases

: WGK (Water-endangermant class) : 2

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SAFETY DATA SHEET



Revision: 14 December 2010 16 OTHER INFORMATION	SDS No. V161500061	Version number: 2	
Recommended uses and restricti	ons : Specifications and technical in dealer.	formations on the product may be obta	ined by your
List of relevant R phrases (headii	R41 : Risk of serious damage R50/53 : Very toxic to aquatic the aquatic environment.	organisms, may cause long-term adver nisms, may cause long-term adverse e	

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