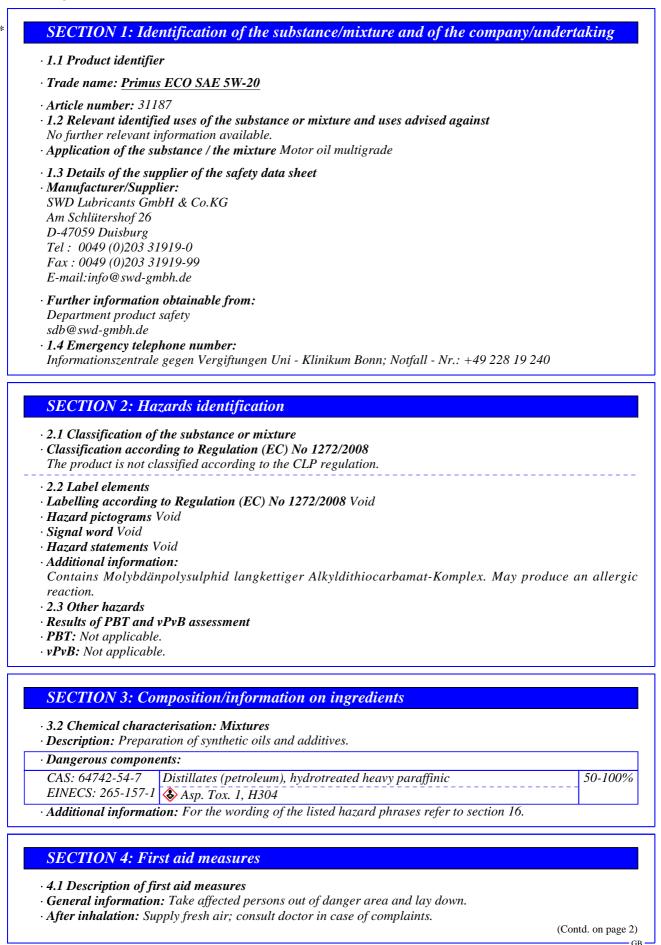


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- After skin contact:
- Generally the product does not irritate the skin. Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray. Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released:
- Sulphur dioxide (SO2) carbondioxide
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Keep people at a distance and stay on the windward side.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Avoid the formation of oil haze.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Note Regulation on facilities for the storage, filling and handling water-polluting substances. ..
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Storage in a collecting room is required.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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• 8.1 Control parameters • Ingredients with limit values that require monitoring at the workplace:	
Oilfog and Oilfumes TLV-8h-TWA 5mg/m ³	
TLV-15min-STEL $10mg/m^3$	
• Additional information: The lists valid during the making were used as basis.	
· 8.2 Exposure controls	
· Personal protective equipment:	
· General protective and hygienic measures:	
The usual precautionary measures are to be adhered to when handling chemicals.	
• Respiratory protection: Not required.	
· Protection of hands:	
Preventive skin protection by use of skin-protecting agents is recommended.	
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.	
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation	?
· Material of gloves	
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.	2
· Penetration time of glove material	
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.	?
· Not suitable are gloves made of the following materials: Leather gloves	

• Not suitable are gloves made of the following materials: Leather gloves

• Eye protection: Goggles recommended during refilling

9.1 Information on basic physical a	und chemical properties
General Information	
Appearance:	clear
Form:	Fluid
Colour:	Brown
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Pour point	-39 °C (DIN ISO 3016)
Flash point:	228 °C (DIN ISO 2592)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.



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· Vapour pressure:	Not determined.	
• Density at 20 •C:	0.849 g/cm ³ (DIN 51757)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with oxidising agents.
- *Reacts with strong oxidising agents.*
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:
- Rat oral : > 2000 mg/kg (Concawe Product dossier 01/54)

68649-42-3 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Oral LD50 > 2000 mg/kg (rat)

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)
- \cdot Germ cell mutagenicity Based on available data, the classification criteria are not met.
- \cdot Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

68649-42-3 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

EC50 1 - 1.5 mg/kg (daphnia) (OECD Guide-line 202 part1, Daphnia A.I.T.)

- · 12.2 Persistence and degradability Not easily biodegradable
- · 12.3 Bioaccumulative potential
- Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- *Remark:* The product can easily be separated by an oil separator (skimmer) of the water surface.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

• Recommendation Delivery of waste oil to offically authorised collectors only.

· European waste catalogue

13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards: · Marine pollutant:	No	
\cdot 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
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· UN ''Model Regulation'':

Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- Additional classification according to Decree on Hazardous Materials, Annex II: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- · Information about limitation of use: none
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H304 May be fatal if swallowed and enters airways.
- · Department issuing SDS: Product safety

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative SVHC: Substances of Very High Concern Asp. Tox. 1: Aspiration hazard - Category 1 · Sources Concawe Product Dossier No.97/108. Concawe Product Dossier Nn. 01/54. \cdot * Data compared to the previous version altered.