Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 01.10.2014 Version number 2 Revision: 28.07.2015

01: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

· **Product name: Veedol Diesel Star Fleet 15W-40**
· **Article number:** 02M112

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

· **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU21 Consumer uses: Private households / general public / consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
· **Product category** PC24 Lubricants, greases, release products
· **Process category**
PROC1 Use in closed process, no likelihood of exposure
PROC2 Use in closed, continuous process with occasional controlled exposure
PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed systems
· **Environmental release category**
ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
ERC7 Industrial use of substances in closed systems
ERC9a Wide dispersive indoor use of substances in closed systems
ERC9b Wide dispersive outdoor use of substances in closed systems
· **Application of the substance / the mixture** Lubricating oil

1.3 Details of the supplier of the safety data sheet

Veedol International B.V.
Kabelweg 21, 1014 BA Amsterdam, The Netherlands
Tel. +31 (0)20 358 46 07
www.veedol.com

Further information obtainable from: Product safety department - info@veedolinternational.nl

1.4 Emergency telephone number: +31 (0)20 358 46 08 (9 AM to 4 PM, Monday to Friday)

02: Hazards identification

2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements**
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations
· **Additional information:**
EUH208 Contains Calcium Sulphonate. May produce an allergic reaction.

2.3 Other hazards

· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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Product name: Veedol Diesel Star Fleet 15W-40

03: Composition/information on ingredients

3.1 Mixtures

· **Dangerous components:**

	Interchangeable low viscosity base oil (<20,5 cSt @40 °C) * Asp. Tox. 1, H304	2,5-10%
CAS: 84605-29-8 EINECS: 283-392-8 Reg.nr.: 01-2119493626-26	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	1-2,5%
CAS: 121158-58-5 EC number: 310-154-3 Reg.nr.: 01-2119513207-49	Phenol, dodecyl-, branched Repr. 2, H361; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤0,1%

· **Additional information:**
* Contains one or more of the following CAS-numbers: 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-65-0, 64742-71-8, 68037-01-4, 72623-83-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 8042-47-5, 848301-69-9.
For the wording of the listed risk phrases refer to section 16.

04: First aid measures

4.1 Description of first aid measures

· **General information:** No special measures required.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** Do not induce vomiting; call for medical help immediately.

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.

05: Firefighting measures

5.1 Extinguishing media

· **Suitable extinguishing agents:**
CO2, dry chemical or foam. Water can be used to cool and protect exposed material.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

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06: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Remove from the water surface (e.g. skim or suck off).
6.4 Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

07: Handling and storage

7.1 Precautions for safe handling
No special measures required.
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:** Store only in the original receptacle.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
7.3 Specific end use(s) No further relevant information available.

08: Exposure controls/personal protection

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

8.1 Control parameters
· **Ingredients with limit values that require monitoring at the workplace:**
Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.
· **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls
· **Personal protective equipment:**
· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
· **Respiratory protection:** Not required.
· **Protection of hands:**

Wear gloves for the protection against chemicals according to EN 374.

Oil resistant gloves.
· **Material of gloves.**
Nitrile rubber, NBR.
PVC gloves.
Neoprene gloves.

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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.

· **Penetration time of glove material**
For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed.
Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material.
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

· **Body protection:** Protective work clothing

09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· **General Information**	
· **Appearance:**	
Form:	Fluid
Colour:	Clear
· **Odour:**	Characteristic
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· **Drip point:**	
Pour point	-35 °C (ASTM D97)
· **Flash point:**	> 101 °C
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	200 °C
· **Self igniting:**	Product is not self igniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	0,6 Vol %
Upper:	7,0 Vol %
· **Density at 20 °C:**	0,881 g/cm³
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
40 °C	110 mm²/s (ASTM D445)
· **Solvent content:**	
Organic solvents:	0,0 %
9.2 Other information	No further relevant information available.

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10: Stability and reactivity

10.1 Chemical stability
· **Thermal decomposition / conditions to be avoided:**
To avoid thermal decomposition do not overheat.
10.2 Possibility of hazardous reactions Reacts with strong oxidising agents.
10.3 Conditions to avoid No further relevant information available.
10.4 Incompatible materials: No further relevant information available.
10.5 Hazardous decomposition products: No dangerous decomposition products known.

11: Toxicological information

11.1 Information on toxicological effects
· **Acute toxicity**
· **Primary irritant effect:**
· **Skin corrosion/irritation** No irritant effect.
· **Serious eye damage/irritation** No irritating effect.
· **Respiratory or skin sensitisation** No sensitising effects known.
· **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
· **Sensitisation** For respiratory and skin sensitisation: Not expected to be a sensitiser.
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

12: Ecological information

12.1 Toxicity
· **Aquatic toxicity:** No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
· **Other information:** The product biodegrades with difficultly .
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
· **Ecotoxical effects:**
· **Remark:**
This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
12.5 Results of PBT and vPvB assessment
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
12.6 Other adverse effects No further relevant information available.

(Contd. on page 6)

13: Disposal considerations

13.1 Waste treatment methods

· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **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.

14: Transport information

14.1 UN-Number · **ADR,ADN, ADN, IMDG, IATA**	Void
14.2 UN proper shipping name · **ADR,ADN, ADN, IMDG, IATA**	Void
14.3 Transport hazard class(es) · **ADR,ADN, ADN, IMDG, IATA** · **Class**	Void
14.4 Packing group · **ADR,ADN, IMDG, IATA**	Void
14.5 Environmental hazards: · **Marine pollutant:**	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· **UN "Model Regulation":**	-

15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

National regulations:

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 7)

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.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

· **Department issuing MSDS:** Product safety department.
· **Contact:** Product safety department
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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)
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Repr. 2: Reproductive toxicity, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
· **Sources** EC/453-2010