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1. Identification of the substance/preparation and company/undertaking

Product name Yamaha Sterndrive Diesel Engine Oil 15W40 (High Grade)

Use Diesel engine oil

Supplier YAMAHA MOTOR DISTRIBUTION B.V.

Bellingel 2, 1119 NV Schiphol-Rijk

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Emergency telephone +31 (0)30-274.88.88 (Central Toxicology Utrecht)

2. Composition/information on ingredients

Hazardous components	Conc (%)	EC No	Classification ^a
Calcium branched chain			
alkyl phenate sulfide	<2	291-829-9	R53
Polyolefin polyamine succin-			
imide, polyol	<2	polymer	R53
Zinc alkyl dithiophosphate	<2	272-028-3	Xi, R41; N, R51/53
Calcium long chain alkaryl		271-877-7 and	
sulfonate	<2	290-636-7	Xi, R43; R53
Polyolefin polyamine succin-			
imide, borated	<1	polymer	N, R51/53
Non-hazardous components			
Base oil mixture ^b	>80	_	Not classified
Other additives	< 20	_	Not classified

^a See Section 16 'Other information' for full text of the R-phrases.

3. Hazards identification

Classification Xi, R43

Health hazards The product is classified as a skin sensitiser. Vapour or mist

in unusually high concentrations, for example generated from

spraying, or heating the product, or from use in poorly

ventilated or confined spaces, may cause irritation of the nose

and throat, headache, nausea and drowsiness.

Environmental hazards The product is not classified as harmful.

Fire and explosion hazards The product is considered non-flammable on the basis of its

flash point. Product does not have explosive properties.

^b DMSO extract of petroleum oil <3% (IP 346)



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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.

Medical treatment 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 forms smoke, and toxic fumes, gases

or vapours.

Protective equipment

for fire fighters

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.

Environmental precautions Product is not classified as environmentally hazardous.

Prevent leakage of into the drainage system by diking with sand or other absorbent material. In the event of spillage, contact the emergency services and local authorities.

Method for cleaning up Stop the source of leak or release. Clean up spill as soon as

possible, using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate,



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remove contaminated soil. Collect spill for disposal and place in suitable container for disposal in accordance with local and national regulations. Wash contaminated surfaces with detergent. Follow prescribed procedures for responding to larger spills and reporting to appropriate authorities.

7. Handling and storage

Information for safe handling Wear protective clothing as in Section 8. Do not weld, heat or

drill container. Replace cap or bung. 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 hazardous material, which may ignite with

explosive violence if heated sufficiently.

Storage Periods of exposure to high temperatures should be

minimized. Keep container closed when not in use.

8. Exposure controls/personal protection

Engineering measures 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. PPE should be to European (EN) standards; consult manufacturers concerning

breakthrough times.

UK Workplace No component has a workplace exposure limit.

exposure limits

9. Physical and chemical properties

Appearance Brown liquid

Odour Slight Pour point -27.5 °C

Boiling rangeNo data availableFlash point (typical)200 °C (COC)Explosive propertiesNone identified



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Autoignition temperatureNo data availableVapour pressureNo data availableDensity0.886 g/cm³ at 15 °C

Solubility: in water Insoluble

Partition coefficientNo data availableViscosityNo data available

10. Stability and reactivity

Stable under recommended storage and handling conditions. No hazardous polymerisation.

Conditions to avoid Avoid prolonged storage at high temperature.

Materials to avoid Acids, oxidising agents, acids, halogens and halogenated

compounds.

Hazardous decomposition Thermal decomposition may produce smoke, carbon

monoxide, aldehydes and other products of

products 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 LD₅₀ believed to be > 5000 mg/kg (practically non-toxic).

Ingestion may cause abdominal discomfort, nausea, or diarrhoea. Dermal toxicity believed to be > 3000 mg/kg. Vapour or mist may cause, headache, nausea and drowsiness.

Corrosivity/irritation Vapours or mist may cause irritation of the nose and throat.

Liquid may produce mild irritation of the skin or eyes.

Sensitisation Product is assumed to be a skin sensitiser on the basis that a

component, present at > 1%, has been classified for

sensitising properties.

Repeated-dose toxicity Prolonged exposure may result in nausea, headache,

diarrhoea, and physical discomfort.

Mutagenicity/Carcinogen-

icity/Reproductive toxicity

No component is known to have these hazardous properties.

12. Ecological information

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

Persistence/degradability No information available.



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Bioaccumulation No information available

Toxicity The product is not classified as dangerous for the environment,

but some components, present at low levels, are toxic to aquatic

organisms, and may cause long-term effects.

13. Disposal considerations

Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations. General EU requirements are given in the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC).

Containers of this material may be hazardous when emptied due to solid or vapor residue. All hazard precautions given in this data sheet must be observed for empty containers.

14. Transport information

Not classified for transport.

15. Regulatory information

Classification and labelling according to EC Directives

Classification Xi, R43

Symbol and indication

of danger: Xi, irritant

Risk phrases: R43, may cause sensitisation by skin contact

Safety phrases: S24, avoid contact with skin

S37, wear suitable gloves

Contains: Calcium long chain alkaryl sulfonate

European Directives on chemical control:

EU Directive 67/548/EEC (Dangerous Substances Directive), and 99/45/EC (Dangerous

Preparations Directive) with amendments.

This Safety Data Sheet is based on EU Directive 2001/58/EC.

Personal protective equipment (PPE): 89/686/EEC. European occupational exposure limits: 2000/39/EC. Protection of health and safety of workers: 98/24/EC.

16. Other information



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Risk phrase explanations: R41, risk of serious damage to eyes; R43, may cause sensitisation by skin contact; R51, toxic to aquatic organisms; R53, may cause long-term adverse effects in the aquatic environment.

The product is classified according to the calculation method given in 99/45/EC. Components are classified according to Annex 1 of 67/548/EEC, or are self-classified according to Annex VI of 67/548/EEC on the basis of available information.

References

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