

# SAFETY DATA SHEET

Date: 1 June 2005

Version: 2

Revision: 1

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

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<b>Product name</b>	<b>Outboard Gear Oil</b>
<b>Use</b>	Gear lubricant
<b>Supplier</b>	<b>YAMAHA MOTOR EUROPE N.V.</b> Bellingel 2, 1119 NV Schiphol-Rijk P.O. Box 75175, 1117 ZS Schiphol - Holland
Telephone	+31 (0)20-654.65.43
Telefax	+31 (0)20-654.65.65
Emergency telephone	<b>+31 (0)30-274.88.88 (Central Toxicology Utrecht)</b>

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## 2. Composition/information on ingredients

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<b>Declarable components</b>	<b>Conc (%)</b>	<b>EC No</b>	<b>Classification<sup>a</sup></b>
Sulfurised isobutylene	<4	214-015-5	R52/53

**Other components**

Base oil mixture <sup>b</sup>	>95
Other additives	<5

<sup>a</sup> See Section 16 'Other information' for full text of the R-phrases.<sup>b</sup> DMSO extract of petroleum oil <3% (IP 346)

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## 3. Hazards identification

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<b>Classification</b>	This product is not classified as dangerous according to EU criteria.
<b>Health hazards</b>	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.
<b>Environmental hazards</b>	The product is not classified as harmful.
<b>Fire and explosion hazards</b>	The product is considered non-flammable on the basis of its flash point. Product does not have explosive properties.

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## 4. First-aid measures

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<b>Inhalation</b>	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.
<b>Skin contact</b>	Wash affected area with soap and water. Get medical attention if irritation occurs. Launder contaminated clothing before re-use.

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<b>Eye contact</b>	In case of contact with eyes, irrigate with water for 15 minutes. Seek medical advice, especially if irritation occurs or symptoms persist.
<b>Ingestion</b>	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.
<b>Medical treatment</b>	Give symptomatic treatment and supportive therapy.

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## 5. Fire-fighting measures

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<b>Fire and explosive properties</b>	The product is not flammable, but may burn if involved in a fire. The product does not have explosive properties.
<b>Extinguishing media</b>	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.
<b>Specific hazards</b>	When burned, product forms smoke, and toxic fumes, gases or vapours.
<b>Protective equipment for fire fighters</b>	Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

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## 6. Accidental release measures

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<b>Personal precautions</b>	Wear appropriate protective clothing (See Section 8), including respiratory protection, during removal of large spillages.
<b>Environmental precautions</b>	Product is not classified as environmentally hazardous. Prevent leakage into the drainage system by diking with sand or other absorbent material. In the event of spillage, contact the emergency services and local authorities.
<b>Method for cleaning up</b>	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, 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.

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## 7. Handling and storage

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**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.

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## 8. Exposure controls/personal protection

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**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** Chemical resistant gloves (eg nitrile) are recommended. 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.

**Occupational exposure limits** No component has a workplace exposure limit (UK), or a European indicative occupational exposure limit value.

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## 9. Physical and chemical properties

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<b>Appearance</b>	Light brown liquid
<b>Odour</b>	Slight
<b>Pour point</b>	<-25 °C
<b>Boiling range</b>	No data available
<b>Flash point (typical)</b>	238 °C (COC)
<b>Explosive properties</b>	None identified
<b>Autoignition temperature</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Density</b>	0.894 g/cm <sup>3</sup> at 15 °C
<b>Solubility: in water</b>	Insoluble
<b>Partition coefficient</b>	No data available
<b>Viscosity</b>	No data available

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## 10. Stability and reactivity

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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 products**

Thermal decomposition may produce smoke, carbon monoxide, aldehydes and other products of 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.

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## 11. Toxicological information

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The product has not been tested for toxicological effects.

**Acute toxicity**

LD<sub>50</sub> 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**

Not expected to be a sensitiser. No components have been identified as sensitising substances.

**Repeated-dose toxicity**

Prolonged exposure may result in nausea, headache, diarrhoea, and physical discomfort.

**Mutagenicity/Carcinogenicity/Reproductive toxicity**

No component is known to have these hazardous properties.

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## 12. Ecological information

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**Mobility**

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

**Persistence/degradability**

No information available.

**Bioaccumulation**

No information available

**Toxicity**

The product is not classified as dangerous for the environment, but some components, present at low levels, are harmful to aquatic organisms, and may cause long-term effects.

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## 13. Disposal considerations

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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

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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). Procedures for the disposal of waste oils are described in Directive 75/439/EEC, as amended.

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.

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## 14. Transport information

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Not classified for transport.

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## 15. Regulatory information

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### Classification and labelling according to EC Directives

Classification	Not classified
Symbol and indication of danger:	None
Risk phrases:	None
Safety phrases:	None
Contains:	No declarable substances

### 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.

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## 16. Other information

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Risk phrase explanations: R52, harmful 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. The classification for flammability is based on the flash point.

### References

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