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SAFETY DATA SHEET

Date: 2 June 2005	Version: 2	Revision: 1
1. Identification of the substance/preparation and company/undertaking		
Product name	Sterndrive Gear Oil	
Use	Gear lubricant	
Supplier	YAMAHA MOTOR DISTRIBUTION B.V. Bellingel 2, 1119 NV Schiphol-Rijk P.O. Box 75175, 1117 ZS Schiphol - Olanda	
Telephone	+31 (0)20-654.65.43	
Telefax	+31 (0)20-654.65.65	
Emergency telephone	+31 (0)30-274.88.88 (Central Toxicology Utrecht)	
2. Composition/information on ingredients		

Declarable components	Conc (%)	EC No	Classification ^a
Sulfurised isobutylene	<4	214-015-5	R52/53
Alkyl phosphoric acid ester,			
amine salt	<2	_	Xi, R36/38
Other components			
Base oil mixture ^b	>95		
Other additives	<5		

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

3. Hazards identification	

Classification	This product is not classified as dangerous according to EU criteria.
Health hazards	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.
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.
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Eye contact	In case of contact with eyes, irrigate with w	
	minutes. Seek medical advice, especially if	irritation occurs
Induction	or symptoms persist.	and give water to
Ingestion	If swallowed, wash out mouth thoroughly a drink. Seek medical attention and show this	-
	Do not induce vomiting, unless instructed b	•
	personnel.	· j · · · · · · · ·
Medical treatment	Give symptomatic treatment and supportive	e therapy.
5. Fire-fighting measures		
Fire and explosive properties	The product is not flammable, but may burn fire. The product does not have explosive p	
Extinguishing media	Carbon dioxide, dry chemical and foam are	-
Extinguishing incuta	aware that product will float on water. Wate	
	fire, or cause splattering. Remove container	• •
	them with water.	
Specific hazards	When burned, product forms smoke, and to	xic fumes, gases
	or vapours.	
Protective equipment	Fire fighters should wear an approved self-	
for fire fighters	breathing apparatus and full protective cloth	hing.
6. Accidental release meas	ures	
Personal precautions	Wear appropriate protective clothing (See S	Section 8).
recounter precountering	including respiratory protection, during rem	
	spillages.	-
Environmental precautions	Product is not classified as environmentally	
	Prevent leakage into the drainage system by	-
	or other absorbent material. In the event of	1 0
Mathad for alconing up	the emergency services and local authorities	
Method for cleaning up	Stop the source of leak or release. Clean up possible, using appropriate techniques such	-
	materials or pumping. Where feasible and a	
	remove contaminated soil. Collect spill for	
	in suitable container for disposal in accorda	
	national regulations. Wash contaminated su	
	detergent. Follow prescribed procedures for	
	larger spills and reporting to appropriate au	thorities.
7 Handling and storage		

7. Handling and storage

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Information for safe handling	g Wear protective clothing as in Section & drill container. Replace cap or bung. Ma feasible handling temperature. Water co be avoided. Caution: do not use pressur drum may rupture with explosive force. may still contain hazardous material, wi explosive violence if heated sufficiently	aintain minimum ontamination should e to empty drum, or Emptied container hich may ignite with
Storage	Periods of exposure to high temperature minimized. Keep container closed when	
8. Exposure controls/personal protection		
Engineering measures	No special ventilation is usually necessary ventilation is recommended. However, a create high airborne concentrations, appr ventilation may be needed.	if operating conditions
Personal protective equipment	t Chemical resistant gloves (eg nitri	
	Wear chemical safety goggles or face sh possible. Where more extensive contact suitable protective clothing (eg apron, s Wear suitable respiratory protective equ mask) if exposure to vapour is likely. Pl European (EN) standards; consult many breakthrough times.	may occur, wear leeves, boots). lipment (breathing PE should be to
Occupational	No component has a workplace exposure	
exposure limits	European indicative occupational expos	sure limit value.

9. Physical and chemical properties

Appearance	Light brown liquid
Odour	Slight
Pour point	<-25 °C
Boiling range	No data available
Flash point (typical)	228 °C (COC)
Explosive properties	None identified
Autoignition temperature	No data available
Vapour pressure	No data available
Density	0.897 g/cm ³ at 15 ℃
Solubility: in water	Insoluble
Partition coefficient	No data available
Viscosity	No data available

10. Stability and reactivity

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Stable under recommended storag	e and handling conditions. No hazardous p Avoid prolonged storage at high temperat	•
Materials to avoid	Acids, oxidising agents, acids, halogens a compounds.	
Hazardous decomposition products	Thermal decomposition may produce smo monoxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide mercaptans and sulfides may also be releat combustion conditions, oxides of the followill also be formed: calcium, sulfur, and the	of e and alkyl ased. Under owing elements

11. Toxicological information

The product has not been tested for toxicological effects. Acute toxicity LD_{50} 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. Vapours or mist may cause irritation of the nose and throat. **Corrosivity/irritation** 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/Carcinogen-No component is known to have these hazardous properties. icity/Reproductive toxicity

12. Ecological information		
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.	

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 Sterndrive Gear Oil



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countries through correspondi	ing laws and regulations. General EU 1	requirements are given in
the Waste Framework Directi	ve (75/442/EEC) and the Hazardous V	Vaste Directive

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.

14. Transport information

Not classified for transport.

15. Regulatory information

Classification and labelling according to EC Directives

Chappinication and happining	, according to De Directives	
Classification	Not classified	
Symbol and indication		
of danger:	None	
Risk phrases:	None	
Safety phrases:	None	
Contains:	No declarable substances	
European Directives on ch	emical 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

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 (2nd ed.)
- 2. Registry of Toxic Effects of Chemical Substances (NIOSH, 1983).