

SEMI SYNTHETIC 2-STROKE

SECTION 1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/UNDERTAKING

1.1 Product Identifier	Semi syn 2-stroke
Product Code	s/s 2-stroke
1.2 Relevant identified uses of the substance or mixture and uses advised against	Lubricant for two-stroke engines. Do not use in any other application.
1.3 Company	Rye Oil Ltd Harbour Rd Rye, East Sussex TN31 7TE
1.4 Emergency Telephone Number	01797 223374 (Monday – Friday 08.00 – 17.00 hrs GMT)
1.5 Other Information	Preparation Date: 19/03/2015

SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture	Not classified as hazardous in accordance with CLP (EC 1272/2008) and DPD (1999/45/EC)
2.2 Label Elements	No labelling required
2.3 Other Hazards	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 DMSO test.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures	EC No.	REACH Reg. No.	GHS Classification	DSD Classification	Conc. %
Component					
Kerosene	265-184-9	Not Available	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315	F; R10 Xn; R65 Xi; R38	10%
Other Information					
None					

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.
Eyes	Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
Skin	Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.
Ingestion	If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.
4.2 Most important symptoms and effects, both acute and delayed	No ill effects known
4.3 Indication of immediate medical attention and special treatment needed, if necessary	Eye contact: immediately wash out with plenty of water

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media	Foam, dry powder or water fog. Water can be used to cool and protect exposed material.
5.2 Specific hazards arising from the substance or mixture	Toxic fumes may be evolved on burning or exposure to heat. See Stability and Reactivity, Section 10 of this Safety Data Sheet.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus. Water may cause splattering.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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<p>6.1 Personal precautions, protective equipment and emergency procedures</p> <p>6.2 Environmental precautions</p> <p>6.3 Methods and material for containment and cleaning up</p> <p>6.4 Reference to other sections</p>	<p>Immediately evacuate all personnel from danger area. Wear Personal Protective Equipment. Eliminate all sources of heat, sparks, pilot lights, static electricity and open flames. Spilled material may make surfaces slippery.</p> <p>Protect drains from potential spills to minimise contamination. Do not wash product into drainage system.</p> <p>In the case of large spills contact the appropriate authorities. In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies. Absorb into dry earth or sand. Protect drains using drain covers. Dispose of as hazardous waste.</p> <p>Personal protective equipment: See section 8</p>
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SECTION 7	HANDLING AND STORAGE
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<p>7.1 Precautions for safe handling</p> <p>7.2 Conditions for safe storage, including any incompatibilities</p> <p>7.3 Specific end use(s)</p>	<p>Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product.</p> <p>Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets.</p> <p>Use a suitable barrier cream at regular intervals.</p> <p>Keep out of the reach of children.</p> <p>Store under cover away from heat and sources of ignition.</p> <p>Intended for use as a lubricant for marine two-stroke engines requiring TC-W3 quality.</p>
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SECTION 8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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8.1 Control parameters				
Country	Substance	Long Term (8 Hours TWA)	Short Term (15 Mins)	
None				
8.2 Exposure controls	Use local exhaust ventilation to control mists or vapours.			
	Hand Protection:	Nitrile or neoprene protective gloves		
	Eye Protection:	Safety glasses		
	Skin Protection:	Protective clothing		
	Hygiene Measures:	Wash thoroughly after handling this product		

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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9.1 Information on basic physical and chemical properties	Does not constitute a specification		
Typical Values			
Grades:			S/S 2-STROKE
	Units		
Appearance			Amber Liquid
Odour			Mild
Odour Threshold			No data available
pH			Not applicable
Pour point/range	°C		No data available
Initial boiling point and range	°C		No data available
Flash point (COC)	°C		140
Flammability			Not flammable
Upper/lower flammability or explosive limits			Not applicable
Vapour pressure	kPa (0.1 mm Hg)		No data available
Relative density	kg/m³		0.875 @ 20°C

Solubility	- water		Insoluble
Partition coefficient n-octanol/water		Log Pow	Not applicable
Autoignition temperature			No data available
Decomposition temperature			No data available
Viscosity		mm ² /s	6.95 @ 100°C
Evaporation rate			Not applicable
Vapour density			Not applicable
Explosive properties			Not applicable
Oxidising properties			None

9.2 Other Information None

SECTION 10	STABILITY AND REACTIVITY
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10.1 Reactivity	No dangerous reactions known
10.2 Chemical stability	Stable under normal conditions of use
10.3 Possibility of hazardous reactions	None known
10.4 Conditions to avoid	Avoid overheating.
10.5 Incompatible materials	Avoid contact with strong oxidising agents
10.6 Hazardous decomposition products	Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide.

SECTION 11	TOXICOLOGICAL INFORMATION
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11.1 Information on toxicological effects

Acute Toxicity

- Oral No toxic components present at levels to cause classification.
- Inhalation No toxic components present at levels to cause classification.
- Dermal No toxic components present at levels to cause classification.

Corrosivity/Irritation

- Eye No components present that are classified as eye irritants.
- Skin No components present that are classified as skin irritants but may cause skin irritation due to de-fatting effect on skin.

- Respiratory Tract No components present that are classified as respiratory irritants.

Sensitisation

- Skin No evidence of sensitisation effects.
- Respiratory No evidence of sensitisation effects.

Repeated-dose Toxicity No data available.

Mutagenicity No evidence of mutagenicity.

Carcinogenicity No evidence of carcinogenicity.

Reproductive Toxicity No evidence of reproductive toxicity.

SECTION 12	ECOLOGICAL INFORMATION
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12.1 Toxicity	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired
12.2 Persistence and Degradability	Not biodegradable.
12.3 Bioaccumulative Potential	There is no evidence to suggest bioaccumulation will occur.
12.4 Mobility in Soil	Spillages may penetrate the soil causing ground water contamination. Non-volatile.
12.5 Results of PBT and vPvB Assessment	No PBT or vPvB chemicals present.
12.6 Other Adverse Effects	None known.

SECTION 13	DISPOSAL CONSIDERATIONS
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13.1 Waste Treatment Methods
Where possible, arrange for product to be recycled.
Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.
Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

SECTION 14	TRANSPORT INFORMATION
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Not classified as hazardous for transport (ADR, RID, UN, IMO, and IATA/ICAO).

SECTION 15	REGULATORY INFORMATION
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Supply regulations: DPD: Dangerous Preparations Directive; GHS: Globally Harmonised System of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations. Transport regulations: CDG: Carriage of Dangerous Goods regulations; ADR/RID/IMDG/ICAO/IATA regulations.

15.2 Chemical Safety Assessment

No formal chemical safety assessment has been carried out.

SECTION 16	OTHER INFORMATION
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Fourth Issue

Third Issue October 2013: Changed to new format.

Second Issue November 2002: Revised to Reach version 2 format.

Full text of classification data in sections 2 and 3

Flam. Liq. 3; H226

Flammable liquids, Hazard Category 3; Flammable liquid and vapour

Asp. Tox. 1; H304

Aspiration hazard, Hazard Category 1; May be fatal if swallowed and enters airways

Skin Irrit. 2; H315

Skin corrosion/irritation, Hazard Category 2; Causes skin irritation

F; R10

Flammable

Xn; R65

Harmful: may cause lung damage if swallowed

Xi; R38

Irritating to skin