Material Safety Data Sheet

2-Stroke

Date Prepared: May 2015

1. Identification of the Substance/Preparation and the Company/Undertaking

Substance or Preparation Trade Name:	2 Stroke
Unique Reference Number(s):	HP-144
Company/Undertaking Name & Address	HHandy Distribution Murdock Road Dorcan Swindon SN3 5HY
Telephone Number:	+44 (0)1793 333220
Emergency Telephone No.	As above

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.

2. Composition

3.2 Mixtures Component	EC No.	Reach Reg. No.	GHS Classification	DSD Classification	Conc. %
Kerosine	265-184-9	Not Available	Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2; H315	F; R10 Xn; R65 Xi; R38	<8
Long chain alkyl polyamide	Polymer	Not Available	Eye Irrit. 2 ; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H41	Xi; R36/38 Xi; R43 R52/53	<8

4. First Aid Measures

Ingestion:	Do not induce vomiting. If conscious give 2 glasses of water and seek immediate medical attention.
Eye Contact:	Ensure contact lenses are removed before rinsing. Wash eyes with plenty of water while lifting the eye lids and continue for 15 minutes. Seek medical attention if irritation develops.
Skin Contact:	Remove contaminated clothing. Wash the skin with soap and water. Get medical attention if irritation or discomfort persists. Launder contaminated clothing before re-use and discard shoes or other leather articles that may have been saturated with the material.
Inhalation:	Remove victim immediately to fresh air. If symptoms persist seek medical attention.
Additional Information:	Note to Physician: Treat symptomatically.

5. Fire Fighting Measures

Flash Point:	200°C typical (COC)
Extinguishing Media:	Stop flow of material to fire. Extinguish using Carbon Dioxide, Dry powder or Foam. Water may cause splattering, but could be used to keep fire-exposed containers cool and to disperse vapours.
Special Fire Fighting Procedures:	Toxic fumes, gases or vapours may evolve on burning. Avoid breathing fire vapours. If possible use self-contained breathing equipment. Material will float on water. Aim to prevent run-off water from getting into sewers and water sources.

6. Accidental Release Measures

Spill Procedure:	Stop leak at source if possible without risk. Extinguish all ignition sources; avoid sparks, flames, heat and smoking. Personal Protective Equipment (PPE) must be worn. Ventilate area if spillage occurred in a confined or poorly ventilated area. Collect free liquid for recycling or disposal. Absorb residual spillages using inert absorbent material and place into plastic containers for disposal
Environmental Precautions:	Protect drains by covering to avoid any spillage entering the drainage system. If any contamination of the drainage system occurs inform the local authorities, Fire Brigade and Environment Agency.
Disposal of Spillage Waste:	Consult local authority regulations or waste disposal experts if in doubt

7. Handling and Storage

Handling:	Protect against contact with eyes. If splashing is likely to occur wear a full face visor or safety goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Avoid breathing mists or vapours and wash hands after contact.
Fire Prevention:	Product soaked rags, paper or absorbent material represent a fire hazard and should not be allowed to accumulate.
Storage:	Avoid undue exposure to heat and ignition sources. Store in tightly sealed original containers in a cool, dry and well ventilated location.

8. Exposure Controls / Personal Protection

Exposure Limits:	None established
Control Measures:	Use only in well ventilated areas. If engineering controls do not reduce airborne vapours to an acceptable level, use suitable respiratory equipment
Hand Protection:	Wear chemical resistant gloves made from impermeable material, (e.g. neoprene).
Eye Protection:	Wear approved safety goggles or safety glasses.
Respiratory Protection:	Under normal conditions respirators is not required, but if deemed necessary use an approved dust/mist mask.
Body Protection:	Wear PPE issue work clothes and chemically resistant safety shoes.

9. Physical and Chemical Properties

Physical State:	Blue coloured liquid
pH:	Not determined
Specific Gravity:	0.850 at 15°C
Solubility:	Insoluble in water.
Odour:	Mild
Viscosity:	Approx. 80 cSt at 40°C Approx. 10.3 cSt at 100°C
Boiling Point:	Not determined
Pour Point:	-40°C

10. Stability and Reactivity

Stability:	Material is normally stable at moderately elevated temperatures and pressures
Incompatibility:	None known, avoid contact with reactive chemicals
Polymerisation:	Will not occur
Thermal Decomposition Products:	Releases smoke, oxides of carbon and other products of incomplete combustion. Hydrogen sulphide, alkyl mercaptans and sulphides may also be released.

11. Toxicological Information

Materials used have been shown to be of low toxicity, but best practice dictates that prolonged exposure and contact should be avoided.

Eye Irritation:	Unlikely to cause more than transient stinging or reddening if accidental eye contact occurs.
Skin Irritation:	Not expected to be a primary skin irritant*. Prolonged or repeated skin contact may lead to dermatitis.
Respiratory Irritation:	Prolonged exposure to oil mists / vapours may cause irritation of mucous membranes and the upper respiratory tract.*.
Dermal Toxicity:	LD50 > 2000 mg/kg* (rabbits)
Inhalation Toxicity:	No data to suggest product may be a toxic inhalation hazard
Oral Toxicity:	LD50 > 5000 mg/kg* (rats)
Dermal Sensitization:	No data available to indicate product or components may be a skin sensitizer
Inhalation Sensitization:	No data available to indicate product or components may be respiratory sensitizers
Chronic Toxicity:	No data available to indicate product or components present at greater than 1.0% are chronic health hazards
Carcinogenicity:	No data available to indicate product or components present at greater than 0.1% may present a carcinogenic hazard
Reproductive Toxicity:	No data available to indicate product or components present at greater than 0.1% may cause reproductive toxicity
Teratogenicity:	No data available to indicate product or components present at greater than 0.1% may cause birth defects
Other:	No other health hazards known Contains mineral oil. Under working conditions which may generate mists observe the US OSHA PEL of 5 $mg.m^{-3}$ and ACGIH STEL of 10 $mg.m^{-3}$

* Based on data from components used or similar materials

12. Ecological Information

Water:	Material floats on water. Individual components range from readily to poorly biodegradable, however small spillages into water will be dispersed by evaporation and/or biodegradation.
Soil:	Small quantities will be absorbed into the upper soil layers where biodegradation may take place. Larger quantities may penetrate to anaerobic soil layers where some organic compounds may persist.
Aquatic Toxicity:	May be harmful to aquatic organisms. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer may also be impaired.

13. Disposal Considerations

This material may be disposed of via an authorised waste/disposal company in accordance with Local and/or National Waste Disposal regulations and the Environmental Protection Act, 1990. Where possible, arrange for material to be recycled.

14. Transport Information

UN Number:	Not Applicable
IMDG:	Not Applicable
ICAO:	Not Applicable
ADR/RID Hazard:	Not Applicable

15. Regulatory Information

Hazard Label Data:	This product is not classified as dangerous for supply in the UK
EC Directives:	Framework Waste Directive, 91/156/EEC Waste Oil Directive 87/101/EEC
Statutory Instruments:	Health & Safety at Work Act, 1974 Consumer Protection Act, 1987 Environmental Protection Act, 1990 Control of Substances Hazardous to Health, 1988 Chemicals (Hazard Information and Packaging) Regulations, 1993

16. Other Information

The information given applies when the material is used for the stated application(s) for which it is designed. Use of this material for purposes other than as stated may give rise to risks not mentioned in this sheet.

If purchased for supply to a third party it is your duty to take all necessary steps to ensure that any person handling or using this product is provided with the information provided in this sheet. If you are an employer it is your duty to tell employees and any other persons who may be affected of any hazards described in this sheet and of all precautions which should be taken.

DISCLAIMER:

The information and recommendations contained herein are accurate and reliable to the best knowledge and belief of Euro Oils Limited as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user. Therefore, it is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use.

Material Safety Data Sheet

Chain Oil 100

Last Revision Date: March 2013

1. Identification of the Substance/Preparation and the Company/Undertaking

Substance or Preparation Trade Name:	Chain Oil 100
Unique Reference Number(s):	
Company/Undertaking Name & Address	Handy Distribution, Murdock Road, Dorcan Industrial Estate, Swindon, Wiltshire, SN3 5HY
Telephone Number:	+44(0)1793 333212
Emergency Telephone No.	As above

2. Composition

Description:	A blend of highly refined mineral oils
CAS No:	Not applicable (mixture)
Hazardous Components	No component is present at sufficient concentration to require a hazardous classification for health in accordance with EC legislation.

3. Hazards Identification

Health:	When used in the application for which it is designed this substance presents no major hazard to health. For toxicological information refer to Section 11.
Environmental:	This substance presents no major hazard to the environment. For Ecological Information please refer to Section 12.
Pressure Injection:	Pressure injection of all products will cause severe internal damage if not promptly treated.

4. First Aid Measures

Inhalation:	Remove the affected person to fresh air. If recovery is not rapid, obtain medical attention
Skin Contact:	Wash the affected parts of the body with soap and water. Change contaminated clothing. Dry clean and launder before re-use. No emergency measures are necessary but if adverse skin effects follow, refer for medical attention.
Ingestion:	Do not induce vomiting. Wash out mouth with water and seek immediate medical attention. Drinking water may be beneficial. Treat symptomatically
Eye Contact:	Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. No emergency measures are necessary but if adverse eye effects follow, refer for medical attention.
Pressure Injection:	Obtain immediate medical attention even though the injury may appear minor.

5. Fire Fighting Measures

Flash Point:	Typical 220°C (COC)
Extinguishing Media:	Foam, Dry Chemical, Carbon Dioxide, Water Mist
Specific Exposure Hazards:	Combustion can produce carbon monoxide, carbon dioxide, water vapour, unburnt hydrocarbons, partially oxidised organic compounds and unidentified inorganic compounds, some of which may be toxic.
Specific Protective Equipment for Fire Fighters:	Use self-contained breathing equipment when fighting fire in confined spaces. Material floats on water. Water may be used to cool containers exposed to fire.
Explosion Data:	Material does not have explosive properties..

6. Accidental Release Measures

Personal Precautions:	Surfaces may become slippery after spillage.
Environmental Precautions:	Water may be used to flush spills away from sources of ignition. Do not allow the product to enter public drainage system or open water courses. Bund using absorbent granules, sand, earth or proprietary equipment. Reclaim liquid directly or soak in an absorbent medium and transfer to a suitable marked container.
Spillage Procedure:	Personal Protective Equipment (PPE) must be worn (see Section 8). Ventilate area and prevent entry into sewers and waterways. Collect free liquid for recycling or disposal Residual material can be collected using absorbent material.
Absorbent Materials:	Sand, active clay or absorbent sheeting.
Disposal of Spillage:	By incineration or via authorised / licensed waste disposal contractor. Disposal must be in accordance with local regulations and current national legalisation.

7. Handling and Storage

Handling:	Avoid contact with the eyes – wear chemical protective goggles when handling the product. Protective clothing such as impervious gloves should be worn if skin contact is anticipated. Protective clothing should be regularly inspected and maintained. The use of barrier and after work creams may be beneficial.
Storage:	Store under cover in a cool and dry location. Avoid exposure to high heat and sources of ignition.

8. Exposure Controls / Personal Protection

Exposure Limits:	None
Ventilation Procedures:	Use with adequate ventilation.
Eye Protection:	Chemical resistant goggles should be worn when handling, or where any risk of splashing is likely.
Skin Protection:	Where prolonged or repeated contact is unavoidable wear impervious gloves when handling the product.. The use of appropriate barrier and after work creams may be beneficial and gloves should be considered whenever their use is practicable and safe. Change heavily contaminated clothing and overalls as soon as possible.

9. Physical and Chemical Properties

Physical State:	Liquid
Colour:	Pale Amber to Light Brown
Relative Density:	0.870 – 0.890 g/ml at 15°C
Initial Boiling Point:	> 280°C estimated
Viscosity:	Typical, 100 cSt at 40°C
Pour Point:	Typical, -10°C
Flash Point:	> 240°C, (ASTM D92, COC)

10. Stability and Reactivity

Stability:	Material is stable at moderately elevated temperatures and pressures. May react with strong oxidising agents, especially at high temperatures.
Conditions to Avoid:	Avoid extreme temperatures, Preferably store between 5°C to 39°C.
Materials to Avoid:	Strong oxidising agents (e.g. chlorates, peroxides)
Decomposition Products:	Hazardous decomposition products are not formed when stored under normal conditions. Incomplete combustion or thermal decomposition may generate such materials as: particulate matter and unburnt hydrocarbons; oxides of carbon; water; partially oxidized organic compounds.

11. Toxicological Information

This material is characterised as non-toxic because it shows the following characteristics (*based on data from components and similar products)**:**

Eye Irritation:	Unlikely to cause more than transient stinging or reddening if accidental eye contact occurs.
Skin Irritation:	Not expected to be a primary skin irritant*. Prolonged or repeated skin contact may lead to dermatitis.
Respiratory Irritation:	Prolonged exposure to oil mists / vapours may cause irritation of mucous membranes and the upper respiratory tract.*.
Dermal Toxicity:	LD50 > 2000 mg/kg* (rabbits)
Inhalation Toxicity:	No data to suggest product is hazardous in this area
Oral Toxicity:	LD50 > 5000 mg/kg* (rabbits)
Dermal Sensitization:	No data available to indicate product or components may be a skin sensitizer
Inhalation Sensitization:	No data available to indicate product or components may be respiratory sensitizers
Chronic Toxicity:	No data available to indicate product or components present at greater than 1.0% are chronic health hazards
Carcinogenicity:	No data available to indicate product or components present at greater than 0.1% may present a carcinogenic hazard
Reproductive Toxicity:	No data available to indicate product or components present at greater than 0.1% may cause reproductive toxicity
Teratogenicity:	No data available to indicate product or components present at greater than 0.1% may cause birth defects
Other:	No other health hazards known Contains mineral oil. Under working conditions which may generate mists observe the US OSHA PEL of 5 $mg.m^{-3}$ and ACGIH STEL of 10 $mg.m^{-3}$

12. Ecological Information

Environmental Fate: Because of its low density this material floats on water. Since it consists of relatively low molecular weight paraffinic substances, small spillages into water will be dispersed by evaporation and/or biodegradation.

Aquatic Toxicity (fish):	LC50 >400,000 ppm in 96 h – Rainbow Trout (0% mortality)
Aquatic Toxicity (algae):	not established.
Aquatic Toxicity (invertebrate):	LC50 > 500,000 ppm in 96 h – Mysidopsis bahia
Mobility:	This material will float on water. For other Physio-chemical properties see Section 9.
Biodegradation:	Inherently Biodegradable (OECD 301B 50% in 28 days)
Bioaccumulation Potential:	Bioaccumulation is unlikely due to the very low water solubility of this product. Bioavailability to aquatic organisms is minimal.
Other Ecological Information:	Although not toxic to vertebrates and invertebrates, spilled material may affect organisms (especially small invertebrates) by physical smothering leading to or by deoxygenation of the water below the oil film.

13. Disposal Considerations

Waste Disposal:	All means of disposal should comply with local and national regulations. Dispose of product and containers carefully and responsibly. Do not allow product to contaminate ponds, water courses, soil or drains. Do not dispose in drains.

14. Transport Information

This material is not classified as dangerous for transport under current EC and International legislation.

UN No:	Not classified.
RID/ADR:	Not classified.
IMO:	Not classified.
IATA/ICAO:	Not classified.
Marine Pollution Category	Marpol 73/78 Annex I

15. Regulatory Information

EC Dangerous Substances / Preparations Classification:	This material is not classified as dangerous for supply under current EC legislation
Risk Phrases:	None
Safety Phrases:	None

16. Other Information

DISCLAIMER: