



## **Semi Synthetic Two Stroke**

**Product Code: M222** 

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

**1.1 Product Identifier** Super Two Stroke

Product Code M222

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.

Caldo Oils Limited
Worsley Brow
Sutton, St. Helens
Merseyside, WA9 3EZ

**1.4 Emergency Telephone Number** +44 (0) 1744 813535 (Monday – Friday 08.00 – 17.00 hrs GMT)

5 Other Information Preparation Date: 20/11/2013

## SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the Not classified as hazardous in accordance with CLP (EC 1272/2008) and DPD (1999/45/EC)

substance or mixture

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
Component EC No. REACH Reg. GHS Classification DSD Conc. %
No. Classification

Kerosine 265-184-9 Not Available Flam. Liq. 3; H226 F; R10 10%

Asp. Tox. 1; H304 Xn; R65 Skin Irrit. 2; H315 Xi; R38

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,** No ill effects known

both acute and delayed Indication of immediate medical attention

Eye contact: immediately wash out with plenty of water

and special treatment needed, if

necessary
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 Toxic fumes may be evolved on burning or exposure to heat. See Stability and Reactivity,

substance or mixture 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

6.1 Personal precautions, protective equipment and emergency

procedures

Environmental precautions

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.

Protect drains from potential spills to minimise contamination. Do not wash product into

drainage system.

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

6.3 Methods and material for containment and cleaning up

6.4 Reference to other sections

Personal protective equipment: See section 8

## SECTION 7 HANDLING AND STORAGE

**7.1 Precautions for safe handling**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.

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. Use a suitable barrier cream at regular intervals.

Conditions for safe storage, including Keep out of the

any incompatibilities

7.3 Specific end use(s)

Keep out of the reach of children.

Store under cover away from heat and sources of ignition.

Intended for use as a lubricant for marine two-stroke engines requiring TC-W3 quality.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9.1 Information on basic physical and chemical Does not constitute a specification

properties

**Typical Values** 

Solubility

- water

Grades: Semi synthetic Two Stroke

Units Appearance

Odour Mild

Odour Threshold
pH
Not applicable
Pour point/range
°C
No data available
Not applicable
No data available

Pour point/range °C No data available
Initial boiling point and range °C No data available
Flash point (COC) °C 140

Flash point (COC) °C 140
Flammability Not flammable

Upper/lower flammability or explosive limitsNot applicableVapour pressurekPa (0.1 mm Hg)No data availableRelative densitykg/m³0.875 @ 20°C

Insoluble

Amber Liquid





Partition coefficient n-octanol/water Log Pow Not applicable

Autoignition temperature No data available

No data available

Viscosity mm<sup>2</sup>/s 6.95 @ 100°C

Not applicable Not applicable Not applicable

None

Other Information

**Decomposition temperature** 

**Evaporation rate** 

Vapour density

**Explosive properties** 

Oxidising properties

## SECTION 10 | STABILITY AND REACTIVITY

10.1 Reactivity No dangerous reactions known10.2 Chemical stability Stable under normal conditions of use

None

10.3 Possibility of hazardous None known

reactions

products

**10.4 Conditions to avoid** Avoid overheating.

10.5 Incompatible materials Avoid contact with strong oxidising agents

10.6 Hazardous decomposition Thermal decomposition products will vary with conditions. Incomplete combustion will generate

smoke, carbon dioxide and hazardous gases, including carbon monoxide.

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### 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 irritatnts.

- 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 Toxicty
 No evidence of reproductive toxicity.

## SECTION 12 ECOLOGICAL INFORMATION

**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**No PBT or vPvB chemicals present.

Assessment
12.6 Other Adverse Effects

None known.

#### SECTION 13 DISPOSAL CONSIDERATIONS

## **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

Not classified as hazardous for transport (ADR, RID, UN, IMO, IATA/ICAO).

**SECTION 15** REGULATORY INFORMATION

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.

No formal chemical safety assessment has been carried out.

15.2 Chemical Safety Assessment

**SECTION 16** OTHER INFORMATION

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

Full text of classification data in sections 2 and 3

Flam. Liq. 3; H226 Asp. Tox. 1; H304 Flammable liquids, Hazard Category 3; Flammable liquid and vapour

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