



# SAFETY DATA SHEET

according to SS 586

SDS #: 084307

## RUBIA FLEET HD 200 SAE 10W

Issuing date: 2015-06-30

Revision Date: 2018-07-16

Version 1.04

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name	RUBIA FLEET HD 200 SAE 10W
Number	BTH
Substance/mixture	Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Motor oil.
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	TOTAL OIL ASIA PACIFIC PTE LTD 331 North Bridge Road #23-01 Odeon Towers Singapore 188720 Tel: +65 6879 2200 Fax: +65 6879 2203
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Importer	OIL INTEL LIMITED 56 Whakatu Road, Whakatu, Hastings 4172 NEW ZEALAND Phone: +64 (06) 871 53 25 Fax: +64 (06) 870 48 90
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#### For further information, please contact:

Contact Point	HSE
E-mail Address	ms.ap-sds@total.com

#### 1.4. Emergency telephone number

New Zealand Poisons Information Centre: 0800 764 766  
New Zealand: +64 9801 0034.

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

This product is not classified as hazardous according to Singapore Standard SS 586 on the Hazard Communication for Hazardous Chemicals and Dangerous Goods

### Label elements

This product is not classified as hazardous according to Singapore Standard SS 586 on the Hazard Communication for Hazardous Chemicals and Dangerous Goods

Version SGPE



**Other hazards which do not result in classification**

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	EC-No	Weight %
Branched alkylphenol and calcium branched alkylphenol	^	-	0.1-<0.25

**Additional information** Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

**4. FIRST AID MEASURES**

**4.1. Description of first-aid measures**

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Skin contact</b>	Not classified.
<b>Eye contact</b>	Not classified.
<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**4.3. Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** Treat symptomatically.



## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

<b>Special Hazard</b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
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### 5.3. Advice for fire-fighters

<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Other information</b>	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>General Information</b>	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
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### 6.2. Environmental precautions

<b>General Information</b>	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
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### 6.4. Reference to other sections

<b>Personal Protective Equipment</b>	See Section 8 for more detail.
<b>Waste treatment</b>	See section 13.

## 7. HANDLING AND STORAGE



### 7.1. Precautions for safe handling

<b>Advice on safe handling</b>	When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.
<b>Prevention of fire and explosion</b>	Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.
<b>Hygiene measures</b>	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and at the end of workday. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

### 7.2. Conditions for safe storage

<b>Technical measures/Storage conditions</b>	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.
<b>Materials to Avoid</b>	Strong oxidizing agents.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control parameters

<b>Exposure limits</b>	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m <sup>3</sup> , NIOSH (REL) TWA 5 mg/m <sup>3</sup> , STEL 10 mg/m <sup>3</sup> , ACGIH (TLV) TWA 5 mg/m <sup>3</sup> (highly refined).
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<b>Legend</b>	See section 16
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### 8.2. Exposure controls

#### Occupational Exposure Controls

<b>Engineering Measures</b>	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
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#### **Personal Protective Equipment**

##### **General Information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

##### **Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.



**Eye Protection**

If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and body protection**

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

**Hand Protection**

Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

**Environmental exposure controls**

**General Information**

The product should not be allowed to enter drains, water courses or the soil.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**General Information**

Color	yellow To orange
Physical State @20°C	liquid
Odor	Characteristic
Odor Threshold	No information available

**Important health safety and environmental information**

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		Not applicable	
Boiling point/boiling range			No information available
Flash point	232 °C 450 °F		ASTM D92 ASTM D92.
Evaporation rate			No information available
Flammability			No information available
Limits in Air			No information available
Vapor Pressure	0.8639		No information available
Vapor density			No information available @ 15 °C
Relative density			@ 15 °C
Density	863.9 kg/m <sup>3</sup>		ASTM D4052
Water solubility			Insoluble
Solubility in other solvents logPow			No information available
			No information available



**TOTAL**

Autoignition temperature	35.8 mm2/s		
Decomposition temperature		No information available	
Viscosity, kinematic	6.1 mm2/s	No information available @ 40 °C @ 100 °C	ASTM D445 ASTM D445
Explosive properties	Not explosive		
Oxidizing Properties		No information available	
Possibility of hazardous reactions		None under normal processing	
<b><u>Other information</u></b>			
Freezing Point		No information available	
Pour point	-39 °C		ASTM D97

**10. STABILITY AND REACTIVITY**

**10.1. Reactivity**

**General Information** No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

**Stability** Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous Reactions** None under normal processing.

**10.4. Conditions to Avoid**

**Conditions to Avoid** Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

**10.5. Incompatible Materials**

**Materials to Avoid** Strong oxidizing agents.

**10.6. Hazardous Decomposition Products**

**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

**11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**



**Information on likely routes of exposure**

<b>Germ Cell Mutagenicity</b>	This product is not classified as mutagenic.
<b>Carcinogenicity</b>	This product is not classified carcinogenic. During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.
<b>Reproductive toxicity</b>	Not classified. Contains a presumed human reproductive toxicant substance.
<b>Principle Routes of Exposure</b>	Skin contact, Eye contact, Inhalation, Ingestion.
<b>Skin contact</b>	Not classified.
<b>Eye contact</b>	Not classified.
<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Acute toxicity - Product Information**

<b>Oral</b>	Not classified.
<b>Dermal</b>	Not classified.
<b>Inhalation</b>	Not classified.

**Acute toxicity - Component Information**

No information available

<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/eye irritation</b>	Not classified.
<b>Sensitization</b>	Not classified as a sensitizer.



**TOTAL**

Chemical Name	European Union
Branched alkylphenol and calcium branched alkylphenol ^	Repr. 1B (H360)

<b>STOT-single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Aspiration Hazard</b>	Not classified.
<b>Other adverse effects</b>	Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

<b>ECOLOGICAL INFORMATION</b>
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**12.1. Toxicity**

Not Classified.

**Acute aquatic toxicity - Product Information**

No information available.

**Acute aquatic toxicity - Component Information**

No information available.

**Chronic aquatic toxicity - Product Information** No information available.

**Chronic aquatic toxicity - Component Information** No information available.





Effects on terrestrial organisms No information available.

**12.2. Persistence and degradability**

General Information No information available.

**12.3. Bioaccumulative potential**

Product Information No information available.

logPow No information available  
Component Information No information available.

**12.4. Mobility in soil**

Soil Given its physical and chemical characteristics, the product generally shows low soil mobility.

Air Loss by evaporation is limited.

Water The product is insoluble and floats on water.

**12.5. Results of PBT and vPvB assessment**

PBT and vPvB assessment No information available.

**12.6. Other adverse effects**

General Information No information available.

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Waste Disposal Methods** Should not be released into the environment. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.



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### Disposal Precautions

Refer to section 8 for safety and protective measures for disposal personnel.

## 14. TRANSPORT INFORMATION

**ADR/RID** Not regulated

**IMDG/IMO** Not regulated

**ICAO/IATA** Not regulated

## 15. REGULATORY INFORMATION

### National regulatory information

#### Singapore

Applicable National Regulation:

Workplace Safety and Health (General Provision) Regulations

#### New Zealand Regulatory Information:

**HSNO Approval Number** HSR002605

**HSNO Group Standard** Lubricants (Low Hazard) Group Standard 2006

**HSNO Classification** 6.3 - SKIN IRRITATION - Category B

6.4 - EYE IRRITATION - Category A (Irritant)

9.1 - AQUATIC ECOTOXICITY - Category D

#### **Regulation according to other foreign laws:**

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations

## 16. OTHER INFORMATION

### **Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists bw

= body weight bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

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OECD = Organization for Economic Co-operation and Development OSHA = Occupational Safety and Health Administration  
UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

### Legend Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

PEL: Permissible exposure limit

REL: Recommended exposure limit

TLV: Threshold Limit Values

+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

**Revision Date:** 2018-07-18

**Revision Note** \*\*\* Indicates updated section.

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet