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## 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Name : RED Onyx Hydraulic AWS 46, 68 & 100  
Trade names and Synonyms : Onyx Hydraulic AWS 46, 68 & 100  
Product Use : Hydraulic oil  
Manufacturer & Supplier : RED Lubricants Pty Ltd  
Telephone Number : +61 894 346 581  
Mobile Number : +61 447 186 276

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## 2: COMPOSITION / INFORMATION ON INGREDIENTS

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2.1 Substances : Not applicable

2.2 Mixtures  
Blend of highly refined base oil and performance additives

<u>Hazardous Components</u>	<u>Concentration (wt%)</u>	<u>CAS No.</u>	<u>GHS Classification (Components)</u>
No hazardous components present	-	-	-

\*CBI: Confidential Business Information

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## 3: HAZARDS IDENTIFICATION

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### 3.1. Classification of the substance or mixture

3.1.1. According to "CLASS Regulation 2013 (Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 3<sup>rd</sup> Edition")

**Not Classified**

This product is not classified as hazardous under CLASS Regulations 2013.

### 3.2. Label elements

Labelling according to CLASS Regulation 2013

### Hazard Pictograms

Not applicable

### Signal word

Not applicable

### Hazard statements

Not applicable

### 3.3 Other hazards

Used engine oil may contain harmful impurities. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis

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## 4: FIRST AID MEASURES

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### 4.1. Description of First aid measures

#### General advice:

Immediate medical attention is required

#### Eye contact:

Rinsed immediately with plenty of water, also under the eyelids, for at least 15 minutes.

#### Skin contact:

Wash skin thoroughly with soap and water. Remove contaminated clothing and shoes. Wash and clean clothing and shoes before reuse. Seek medical attention if irritation recur.

#### Inhalation:

No treatment necessary under normal condition of use

#### Ingestion:

In general, no treatment is necessary unless large quantities are swallowed, however, get medical advice

**Protection of first-aiders:**

Wear personal protective equipment

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

Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

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**5: FIRE FIGHTING MEASURES**

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**5.1 Extinguishing media**

Suitable extinguishing media:

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Extinguishing media which must not be used for safety reasons:

Do not use water jet

**5.2. Special hazards arising from substance or mixture**

Combustion products may include the following: carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

**5.3. Advice to fire-fighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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**6: ACCIDENTAL RELEASE MEASURES**

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

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective equipment.

**6.2. Environmental precautions**

Avoid disposal of spilt material and runoff contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil etc.)

**6.3. Methods and materials for containment and cleaning up**

Stop leak if without risk. Move containers from spill area. Absorb with an inert material e.g. sand, earth and place in an appropriate waste disposal containers. Dispose with licensed waste disposal

**6.4. Reference to other sections**

For personal protection see section 8. See also section 13 for disposal.

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**7: HANDLING AND STORAGE**

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**7.1 Precaution for safe handling**

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Keep containers tightly closed and in a cool, well-ventilated place. Use properly labelled and closable containers. This material is a static accumulator.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

For containers or container linings, use mild steel or density polyethylene

Unsuitable materials: PVC

**Storage Temperature:**

0 to 60 degrees Celsius

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## 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### 8.1. Control parameters

OEL: oil mist, mineral – TWA (8h): 5mg/m<sup>3</sup> – Occupational Safety and Health (use the Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000 (Malaysia)

### 8.2. Exposure controls

TECHNICAL PRECAUTIONS: Avoid production and diffusion of mist and aerosol with utilization of localized ventilation or other required precautions. Adopt all required engineering precautions to avoid product emission to environment.

EYE PROTECTION: Chemical goggles and faced shield in case of splashes.

PROTECTION FOR SKIN: Wear suitable gloves (i.e. neoprene, nitrile). Gloves should be changed when they show wear. The kind of gloves and the term of use must be decided from employer with regards to processing and to allow for DPI legislation and glove producer's indications. Wear gloves only with clean hands.

RESPIRATORY PROTECTION: None required under normal conditions of use. Use approved full face respirator with organic vapour filter cartridge if the recommended exposure limits are exceeded.

ENVIRONMENTAL EXPOSURE CONTROLS: Refer to technical precautions and also to section 6.2, 6.3, 7.2, 12 and 13.

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## 9: PHYSICAL & CHEMICAL PROPERTIES

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### 9.1. Information on basic physical and chemical properties

Form:	Liquid
Colour:	Bright and Clear brown
Odour:	petroleum - mild
Odour Threshold:	No information available
Melting Point (Deg C):	No information available
Boiling Point (Deg C):	No information available
Flash Point (Deg C):	Greater or equal to 210
Evaporation rate:	No information available
Flammability:	No information available
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Vapour pressure:	No information available
Relative Vapour density:	No information available
Water solubility:	Insoluble
Partition coefficient: n-octane/water:	No information available
Auto ignition temperature (Deg C):	No information available
Decomposition temperature (Deg C):	No information available
Viscosity (cSt):	> 38 @ 40 Deg C (kinematic)
Explosive properties:	No information available
Oxidising properties:	No information available
pH:	No information available
Relative density:	< 0.9

### 9.2. Other information

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## 10: STABILITY AND REACTIVITY

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### 10.1. Reactivity

This product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph

### 10.2. Chemical stability

Stable under recommended handling and storage conditions

### 10.3. Possibility of hazardous reactions

React with strong oxidising agents.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## 11: TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

#### Skin contact

Prolonged or repeated skin contact sometimes may cause irritation and dermatitis. LD50: > 2,000mg/kg (rabbit)

#### Eye contact

Contact may cause slight irritations.

#### Inhalation

Inhalation of mists and vapours generated at elevated temperatures may cause respiratory irritation. LC50: >5,000mg/kg (aerosol)

#### Ingestion

Unlike to cause harm if accidentally swallowed in small doses, though ingestion of large quantities may cause gastro-intestinal effects. LD50: >5,000mg/kg (rat)

#### Sensitisation

May cause sensitization by skin contact. May cause sensitization by inhalation.

#### Carcinogenic Effects

Based on available data, the classification criteria are not made.

#### Mutagenic effects

Based on available data, the classification criteria are not made.

#### Reproductive toxicity

Based on available data, the classification criteria are not made.

#### STOT – repeated exposure

Based on available data, the classification criteria are not made.

#### Aspiration Hazard

Based on available data, the classification criteria are not made.

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## 12: ECOLOGICAL INFORMATION

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### 12.1 Toxicity

This product is not classified as dangerous for the environment.

### 12.2. Persistence and degradability

Data on biodegradability of product are not available.

### 12.3. Bio accumulative potential

Not available.

### 12.4. Mobility in soil

No information available

### 12.5. Results of PBT and vPvB assessment

Not available

### 12.6. Other adverse effects

Do not allow contact with soil, surface or ground water

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## 13: DISPOSAL CONSIDERATION

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### 13.1. Waste treatment methods

Prevent contamination of soil, drains and surface waters. Do not discharge in sewers, tunnels or water courses. Dispose in accordance with local or national regulations via authorised person/licensed waste disposal contractor.

### 13.2. Waste from residues / unused products:

Dispose of in accordance with local regulations stated below.

### 13.3. Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

### 13.4. Relevant regulation:

Dispose according to Environment Quality (Scheduled Wastes) Regulations 2005 – Malaysia or other relevant regulation at the country of use.

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## 14: TRANSPORT INFORMATION

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This product is not regulated under dangerous goods and regulations.

### 14.1. UN- Number

N/A

### 14.2. UN proper shipping name

N/A

### 14.3. Transport hazard class

N/A

### 14.4. Packing group

N/A

#### 14.4.1. Further information for transport

##### IMDG

UN-No (IMO/IMDG):	N/A
Proper shipping name (IMDG)	N/A
EMS no:	N/A
Label (IMO/IMDG):	N/A
Hazard label II (IMO/IMDG):	N/A

##### ADR/RID

UN-No (IATA)	N/A
Proper shipping name:	N/A
Hazard class:	N/A
Subsidiary Risk:	N/A
Packing group:	N/A
ADR/RID-Labels:	N/A
Hazard Label II (ADR):	N/A

##### ICAO/IATA

UN-No (IATA):	N/A
Proper shipping name (IATA):	N/A
Hazard Class (IATA):	N/A
Subsidiary Class (IATA):	N/A
Packing group (IATA):	N/A
Hazard Label:	N/A
Hazard Label II:	N/A

### 14.5. Environment hazards:

N/A

### 14.6. Special Precautions for user

N/A

### 14.7. Transport in bulk according to ANNEX II of MARPOL 73/78 and the IBC Code:

N/A

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## 15: REGULATORY INFORMATION

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### 15.1 Safety, Health and environmental regulations/legislation specific for substances or mixture

USECHH (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000 – Malaysia.

Occupational exposure of listed substance is listed in section 8.

15.2. CLASS (Classification, Labelling and Safety DATA Sheet of Hazardous Chemicals) Regulations 2013 – Malaysia.  
This product is not classified as hazardous under this regulation.

15.3. Scheduled Waste Regulations 2005 – Malaysia.  
This product should be classified as scheduled waste under this regulation.

**Further information**

N/A

**15.4. Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this substance.

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## 16: OTHER INFORMATION

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**This safety data sheet has been prepared according to following regulations:**

CLASS (Classification, Labelling and Safety DATA Sheet of Hazardous Chemicals) Regulations 2013 specially the related CLASS Industry Code of Practice

General rule for classification and hazard communication of chemicals Safety Data Sheet for Chemical Products Content and Order of Sections Globally Harmonized System of Classification and Labelling of Chemicals (UN GHS)

**Hazards statements related to ingredients:**

H412 – Harmful to aquatic life with long lasting effects

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**PREPARED BY** : Albert Lim

The information provided in the Safety Data Sheet is correct to the best our knowledge, at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered warranty or quality specification. The information relates only to the specific material designed and may not be valid for such materials used in combination with other materials or in any process, unless specified in the text.