

## 1. Identification of the substance and of the supplier

### 1.1 Product identifiers

Product name : DUCKHAMS ZIRCON Z46 ANTI-WEAR

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

Identified uses : Lubricating oil

### 1.3 Details of the supplier of the safety data sheet

Supplier : Duckhams Energy Co.,Ltd. (Head office)  
55 Building 33 Space Tower B Room 601 Soi Pradiphat 17, Pradiphat Road,  
Phyathai, Phyathai, Bangkok 10400

Hotline : (097) 926 3855

E-mail : Technical@duckhams.co.uk

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Skin corrosion / Irritation Category 3  
Serious eye damage / Eye irritation Category 2B

### 2.2 Label elements

Pictogram No

Signal word Warning

Hazard statement(s) H316:Causes mild skin irritation  
H320:Caused eye irritation

#### Precautionary statement(s)

Prevention P264:Wash thoroughly after handling  
Response P305+P351+P338:If in eye: Rinse cautiously with water for several minutes, Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313:If skin irritation occurs: Get medical advise/attention.  
P337+P313:If eye irritation persists: Get medical advice/attention

2.3 Other hazards : No data available

## 3. Composition/Information on ingredients

### Complex Mixture

Components	CAS No.	Concentration %
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	95 – 98%
Additive	Proprietary	0 – 2%

## **4. First aid measures**

### **4.1 Description of first aid measures**

<b>Inhalation</b>	Remove person to fresh air. If not breathing, give artificial respiration. Get medical attention.
<b>Skin contact</b>	Wash contact areas with soap and water. Launder contaminated clothing before reuse
<b>Eye contact</b>	Flush thoroughly with water for at least 15 minutes. If irritation occurs, get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Get immediate medical attention

**4.2 Most important symptoms and effects, both acute and delayed :** Headache, dizziness, nausea, respiratory irritation , Mildly irritating to skin.

**4.3 Indication of any immediate medical attention and special treatment needed :** Treat symptomatically

## **5. Firefighting measures**

### **5.1 Extinguishing media**

**Suitable extinguishing media :** Water spray, foam, dry chemical or carbon dioxide (CO<sub>2</sub>).

**Inappropriate Extinguishing Media :** Straight streams of water

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

Non- flammable mixtures. Elevated temperatures can lead to the formation of irritating vapors.

### **5.3 Special protective equipment and precautions for fire-fighters**

Fire fighters should use self-contained breathing apparatus (SCBA) to fight fires. Use water spray to cool fire exposed surfaces and to protect personnel.

## **6. Accidental Release Measure**

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

Evacuate area. Avoid contact with spilled material. Half-face or full-face respirator with filter for organic vapor.

### **6.2 Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas.

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

Stop leak if with out risk. Move containers from spill area. Absorb with an inert dry material (e.g. sand). And place in waste disposal container.

## **7. Handling and Storage**

### **7.1 Precautions for safe handling**

Avoid breathing vapor or mist.  
Avoid contact with skin and eyes  
Wear suitable gloves, coveralls, apron and boots.  
Use only with adequate ventilation.  
Use non-sparking tools.  
Prevent spills and leaks to avoid slipping hazards.

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

Keep containers closed when not in use and check regularly for leaks. Keep in the original container protected from direct sunlight in a dry ,cool and well ventilated areas. Store away from incompatible materials. Avoid excessive long-term storage temperatures to prolong shelf life.  
Maximum storage temperature: 60 °C



## **11. Toxicological Information**

### **11.1 Information on the likely routes of exposure**

- Inhalation : Prolonged breathing of vapors can cause headache, dizziness, nausea, respiratory irritation or chemical pneumonitis.
- Skin contact : Slightly irritating.
- Eye contact : Slightly Irritating.
- Ingestion : Can cause stomach ache and vomiting.

### **11.2 Symptoms related to the physical, chemical and toxicological characteristics;**

Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

### **11.3 Delayed and immediate effects and also chronic effects from short and long term exposure; Immediate effects**

May cause respiratory irritation, headache, nausea . Mildly irritating to skin and eyes.

#### **Chronic effects :**

Prolonged and repeated contact with skin can cause deflating and drying of the skin resulting in skin irritation and dermatitis.

### **11.4 Numerical measures of toxicity**

<b>Components</b>	<b>Acute toxicity</b>
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD50 (oral rat) :> 5000 mg/kg LD50 (Dermal rabbit ) :> 5000 mg/kg LC50 (Inhalation rat) :>2.4 mg/l

#### **Classification of Health Hazards**

Acute oral toxicity estimate	Not classified
Acute dermal toxicity estimate	Not classified
Acute inhalation toxicity estimate	Not classified
Skin corrosion / irritation	Category 3
Serious eye damage/eye irritation	Category 2B
Respiratory or skin sensitization	Not sensitization
Germ cell mutagenicity	Not classified
Carcinogenicity	Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC)
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

## **12. Ecological Information**

### **12.1 Ecotoxicity**

<b>Components</b>	<b>Result</b>
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Fish (Salmo gairdneri) > 1000 mg/l (96 h) EC50 Crustacea (Daphnia magna) > 1000 mg/l (48 h) ErC50 Algae (Scenedesmus subspicatus) > 1000 mg/l (96 h) NOEC Fish (Pimephales promelas) > 5000 mg/l (7 days) NOEC Crustacea (Ceriodaphnia sp.) 552 mg/l (7 days)

Acute hazards to the aquatic environment estimate : Not classified  
Long-term hazards to the aquatic environment estimate : Not classified

- 12.2 Persistence and degradability** No data available
- 12.3 Bio accumulative potential** No data available
- 12.4 Mobility in soil** Move under natural forces to the groundwater
- 12.5 Other adverse effects** Long term effect to the aquatic environment.

### **13. Disposal Considerations**

#### **13.1 Waste treatment methods**

Disposal as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal regulations.

#### **13.2 Contaminated packaging**

Do not attempt to refill or clean containers since residue is difficult to remove. All containers should be disposed of in accordance with governmental regulations.

### **14. Transport Information**

- 14.1 UN number** No data available
- 14.2 UN proper shipping name** No data available
- 14.3 Transport hazard class(es)** No regulated
- 14.4 Packaging group** No data available
- 14.5 Environmental hazards** No data available
- 14.6 Transport in bulk** No data available
- 14.7 Special precautions for user** No data available

### **15. Regulatory Information**

#### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **GLOBAL INVENTORIES**

component	USA (TSCA)	EU (EINECS)	AUS (AICS)	JAP (ENCS)	KOR (ELCI)	CHN (IECSC)	PHLP (PICCS)	CAN (DSL/ NDSL)	NZ (NZIOC)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

#### **15.2 Chemical Safety Assessment** No data available

## **16. Other Information**

**Date** 30 April 2021

**Prepared by:** Duckhams Energy Co.,Ltd.

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

**DUCKHAMS**  
KEEPS YOU MOVING