

1. Identification of the substance and of the supplier

1.1 Product identifiers

Product name : DUCKHAMS ZIRCON Z100 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 N

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

Inhalation Remove person to fresh air. If not breathing, give artificial respiration. Get medical

attention.

Skin contact Wash contact areas with soap and water. Launder contaminated clothing before reuse **Eye contact** Flush thoroughly with water for at least 15 minutes. If irritation occurs, get medical

attention.

Ingestion 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 (CO₂). **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

8. Exposure Controls/Personal Protection

8.1 Control parameters

Mineral Oil 64742-65-0 ACGIH TLV-TWA 5 mg/m3 ACGIH TLV-STEL10 mg/m3 OSHA PEL-TWA 5 mg/m3

8.2 Appropriate engineering controls

Ventilation may be used to control or reduce airborne concentrations.

8.3 Personal protective equipment

Eye/face protection: Goggle with face shields are recommended.

Skin and Body protection: Wear gloves made from nitrile rubber., Chemical / oil resistant clothing

Respiratory protection: Wear organic vapor respirator.

8.4 Work / Hygienic Practices:

When using do not eat drink or smoke . Wash hand prior to eating ,drinking , smoking or using the toilet. Wash contaminated clothing and other protective equipment before reusing.

9. Physical and Chemical Properties

Bright&Clear a) Appearance b) Odour Characteristic c) Odour Threshold No data available d) pH No data available e) Melting point/freezing point No data available f) Initial boiling point and boiling range No data available g) Flash point 254 °C h) Evaporation rate No data available

i) Flammability (solid, gas)
j) Upper/lower flammability or explosive limits
k) Vapour pressure
l) Vapour density
m) Relative density
No data available
No data available
No data available
No data available

n) Water solubility Insoluble

o) Partition coefficient: noctanol/water log Pow No data available Pow No data available No data avail

10. Stability and Reactivity

10.1 Reactivity No data available

10.2 Chemical stability Stable under recommended storage conditions

10.3 Possibility of hazardous reactions No polymerization

10.4 Conditions to avoid Excessive heat and sources of ignition

10.5 Incompatible materials No data available

10.6 Hazardous decomposition products Does not decompose at ambient temperatures.

If high temperature, material will decompose to Aldehydes,

sulphur oxides and oxide of carbon

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. Slightly Irritating. Eye contact :

: Can cause stomach ache and vomiting. Ingestion

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

Components	Acute toxicity			
Distillates (petroleum), solvent-dewaxed	LD50 (oral rat) :> 5000 mg/kg			

heavy paraffinic 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)

No data available Reproductive toxicity Specific target organ toxicity - single exposure No data available No data available

Specific target organ toxicity - repeated exposure Aspiration hazard No data available

12. Ecological Information

12.1 Ecotoxicity

Components Result

LC50 Fish (Salmo gairdneri) > 1000 mg/l (96 h) Distillates (petroleum), solvent-EC50 Crustacea (Daphnia magna) > 1000 mg/l (48 h) dewaxed heavy paraffinic

ErC50 Algae (Scenedesmus subspiacatus) > 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 effectsLong 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 11 March 2020

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.

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