



## SAFETY DATA SHEET

According to the Hazardous Substances  
(Safety Data Sheets) Notice 2017

# ZF Lifeguard Hybrid 2

Version number: 1

Issued: 2026-08-27

## SECTION 1: Identification

### Product identifier

**Trade name**

ZF Lifeguard Hybrid 2

**Article No.**

0671.090.548; 0671.090.516; 0671.090.570

### Recommended use of the chemical and restrictions on use

**Product type**

Mixture

**Use**

Transmission oil.

**Not suitable for use in**

This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

### Supplier's details

**SDS created by**

Global Division B Product Compliance Mgmt. System (BWC)

**Supplier**

ZF Services Pty Limited

Address

Unit 1, 13 Bessemer Street  
Blacktown  
2148 New South Wales  
Australia

Telephone

+61 2 9679 5555

Email

msds.zf-aftermarket@zf.com

Web site

www.zf.com/contact

**Contact person**

Global Division B Product Compliance Mgmt. System (BWC)



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### **Email address**

msds.zf-aftermarket@zf.com

### **Emergency phone number**

(+49) 89 19 240

### **Available outside office hours**

Yes

## SECTION 2: Hazard identification

### **Classification of the substance or mixture and any national or regional information**

#### **Description**

This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

### **Label elements, including precautionary statements**

#### **More information**

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

Prevention: No precautionary phrases.

Response: No precautionary phrases.

Storage: No precautionary phrases.

Disposal: No precautionary phrases.

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

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used oil may contain harmful impurities. Not classified as flammable but will burn.



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### SECTION 3: Composition/information on ingredients

#### Mixture

| Chemical name                                                                | CAS No.<br>EC No.<br>REACH No.<br>Index No.       | Concentration | Classification                     | H-phrases<br>M factor<br>acute<br>M factor<br>chronic | Specific concentration limits<br>ATE | Note         |
|------------------------------------------------------------------------------|---------------------------------------------------|---------------|------------------------------------|-------------------------------------------------------|--------------------------------------|--------------|
| Distillates (Fischer - Tropsch), heavy, C18-50 – branched, cyclic and linear | 848301-69-9<br>482-220-0<br>01-0000020163-82<br>- | 75 - 85%      | Asp. Tox. 1                        | H304<br>-<br>-                                        |                                      | -            |
| Alkyl acetamide                                                              | -<br>-<br>-<br>-                                  | 1 - 2.99%     | Skin Sens. 1B                      | H317<br>-<br>-                                        | Skin Sens. 1B, H317:<br>C ≥ 9.4%     | Trade secret |
| Dialkylamine alkylene glycol                                                 | -<br>-<br>-<br>-                                  | 0.1 - 0.99%   | Skin Sens. 1,<br>Aquatic Chronic 3 | H317, H412<br>-<br>-                                  |                                      | Trade secret |

#### **Product based on**

Chemical nature : Synthetic base oil and additives.

#### **Substance additional information**

For explanation of abbreviations see section 16. For the complete text of H- / EUH-statements mentioned in this section, see section 16.

### SECTION 4: First-aid measures

#### Description of necessary first-aid measures

##### **Inhalation**

No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

##### **Skin contact**

Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.

If persistent irritation occurs, obtain medical attention.



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### **Eye contact**

Flush eye with copious quantities of water.

Remove contact lenses, if present and easy to do. Continue rinsing.

If persistent irritation occurs, obtain medical attention.

### **Ingestion**

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

### **Most important symptoms/effects, 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 diarrhea.

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

When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

Notes to physician : Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

### **Suitable (and unsuitable) extinguishing media**

#### **Suitable extinguishing media**

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

#### **Unsuitable extinguishing media**

Do not use water in a jet.

### **Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products).**

Hazardous combustion products may include:

A complex mixture of airborne solid and liquid particulates and gases (smoke).

Carbon monoxide may be evolved if incomplete combustion occurs.

Unidentified organic and inorganic compounds.



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### Special protective actions for fire-fighters

#### Special protective equipment for fire-fighters

Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

### Environmental precautions

Use appropriate containment to prevent uncontrolled release. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Local authorities should be advised if significant spillages cannot be contained.

### Methods and materials for containment and cleaning up

Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material.

Reclaim liquid directly or in an absorbent.

Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

### Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.

For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.



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## SECTION 7: Handling and storage

### Precautions for safe handling

#### **Preventive handling precautions**

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Advice on safe handling : 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.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a cool, well-ventilated place.

Use properly labeled and closable containers.

Store at ambient temperature.

Avoidance of contact : Strong oxidising agents.

Product Transfer : Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.

Packaging material : Suitable material: For containers or container linings, use mild steel or high density polyethylene.

Unsuitable material: PVC.

### Specific end use(s)

Container Advice : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

## SECTION 8: Exposure controls/personal protection

### Control parameters

#### **Exposure limits**

See below OEL table.

Biological occupational exposure limits: No biological limit allocated.

#### **National occupational exposure limits**



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| Ingredient        | CAS No.<br>EC No. | Exposure limit<br>ppm / mg/m <sup>3</sup> | Source   | Remark                                                                                            | Year |
|-------------------|-------------------|-------------------------------------------|----------|---------------------------------------------------------------------------------------------------|------|
| Oil mist, mineral | -<br>-            | - / 5                                     | NZ OEL   | WES-TWA (Mist)<br>Further information:<br>Sampled by a method<br>that does not collect<br>vapour. | -    |
| Oil mist, mineral | -<br>-            | - / 10                                    | NZ OEL   | WES-STEL (Mist)                                                                                   | -    |
| Oil mist, mineral | -<br>-            | - / 5                                     | OSHA Z-1 | TWA (Mist)                                                                                        | -    |
| Oil mist, mineral | -<br>-            | - / 5                                     | ACGIH    | TWA (Inhalable particulate matter)                                                                | -    |



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### Appropriate engineering controls

#### Appropriate engineering controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances.

Appropriate measures include:

Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

#### General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Practice good housekeeping.

#### Monitoring Methods:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods  
<http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods  
<http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances  
<http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany  
<http://www.dguv.de/inhalt/index.jsp>

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

Protective measures Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.



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### **Personal Protective Equipment Symbols**



### **Eye / face protection**

If material is handled such that it could be splashed into eyes, protective eyewear is recommended.

### **Hand protection**

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

### **Other skin protection**

Skin protection is not ordinarily required beyond standard work clothes.

It is good practice to wear chemical resistant gloves.

### **Respiratory protection**

No respiratory protection is ordinarily required under normal conditions of use.

In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C (149°F)].

### **Thermal hazards**

Not applicable



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### **Environmental exposure controls**

Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

#### **Physical state**

Clear, bright liquid.

#### **Colour**

Amber

#### **Odour**

No data available

#### **Melting point / freezing point**

No data available

#### **Boiling point or initial boiling point and boiling range**

> 280 °C / 536 °F [estimated value(s)]

#### **Flammability**

Not applicable [solid, gas];

Not classified as flammable but will burn [liquids]

#### **Lower and upper explosion limit**

Typical 1 %(V);

Typical 10 %(V)

#### **Flash point**

>= 200 °C / 392 °F

#### **Method**

EN ISO 2592

#### **Auto-ignition temperature**

> 320 °C / 608 °F



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### **Decomposition temperature**

No data available

### **pH**

Not applicable

### **Kinematic viscosity**

$\leq 26.5 \text{ mm}^2/\text{s}$  (40.0 °C / 104.0 °F);

$\leq 5.6 \text{ mm}^2/\text{s}$  (100 °C / 212 °F)

### **Method**

DIN 51562

### **Solubility**

No data available

### **Water solubility**

Negligible

### **Partition coefficient n-octanol/water**

log Pow:  $> 6$  [based on information on similar products]

### **Vapour pressure**

$< 0.5 \text{ Pa}$  (20 °C / 68 °F) [estimated value(s)]

### **Density and/or relative density**

$0.834 \text{ g/cm}^3$  (15.0 °C / 59.0 °F)

### **Method**

DIN EN ISO 12185

### **Relative vapour density**

No data available

### **Explosive properties**

Classification Code: Not classified

### **Particle characteristics**

No data available

### **Other information**

Pour point :  $\leq -48 \text{ °C}$  /  $\leq -54 \text{ °F}$  [Method: ISO 3016]

Conductivity : This material is not expected to be a static accumulator.



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### SECTION 10: Stability and reactivity

#### Reactivity

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

#### Chemical stability

Stable.

#### Possibility of hazardous reactions

Reacts with strong oxidising agents.

#### Conditions to avoid

Extremes of temperature and direct sunlight.

#### Incompatible materials

Strong oxidising agents.

#### Hazardous decomposition products

No decomposition if stored and applied as directed.

### SECTION 11. Toxicological information

#### Information on the likely routes of exposure

Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

#### Acute toxicity

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

| Product / Sub-<br>stance name<br>CAS / EC no. | Dose descriptor | Value / Dose | Exposure route | Test animals | Remarks      |
|-----------------------------------------------|-----------------|--------------|----------------|--------------|--------------|
| ZF Lifeguard Hybrid<br>2<br>-                 | LD50            | > 5000 mg/kg | oral           | Rat          | Low toxicity |
| ZF Lifeguard Hybrid<br>2<br>-                 | LD50            | > 5000 mg/kg | dermal         | Rat          | Low toxicity |



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### **Skin corrosion/irritation**

Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

### **Serious eye damage/irritation**

Slightly irritating to the eye., Based on available data, the classification criteria are not met.

### **Respiratory or skin sensitisation**

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

| Product / Substance name<br>CAS / EC no. | Result                                                        | Other                                                                                                                                                |
|------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alkyl acetamide<br>-                     | May cause an allergic skin reaction in sensitive individuals. | Experimental data has shown that the concentration of potentially sensitising components present in this product does not induce skin sensitisation. |

### **Germ cell mutagenicity**

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

### **Carcinogenicity**

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

| Product / Substance name<br>CAS / EC no.                                          | Result                             |
|-----------------------------------------------------------------------------------|------------------------------------|
| Distillates (Fischer - Tropsch), heavy, C18-50 – branched, cyclic and linear<br>- | No carcinogenicity classification. |
| Alkyl acetamide<br>-                                                              | No carcinogenicity classification. |
| Dialkylamine alkylene glycol<br>-                                                 | No carcinogenicity classification. |

### **Reproductive toxicity**

Not a developmental toxicant., Does not impair fertility.

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

### **STOT-single exposure**

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



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### **STOT-repeated exposure**

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

### **Aspiration hazard**

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

### **Routes of exposure**

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

### **Information on other hazards**

#### **Other information**

Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible. Slightly irritating to respiratory system.

## **SECTION 12: Ecological information**

### **Toxicity**

#### **Acute toxicity**

Ecotoxicological data have not been determined specifically for this product.

Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

#### **Acute fish toxicity**

| Product / Substance name<br>CAS / EC no. | Measurement type | Value / Result | Species | Remark                 |
|------------------------------------------|------------------|----------------|---------|------------------------|
| ZF Lifeguard Hybrid 2<br>-               | LL/EL/IL50       | > 100 mg/l     | Fish    | Practically non toxic: |

#### **Acute algae toxicity**

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| Product / Substance name<br>CAS / EC no. | Measurement type | Value / Result | Species | Remark                |
|------------------------------------------|------------------|----------------|---------|-----------------------|
| ZF Lifeguard Hybrid 2<br>-               | LL/EL/IL50       | > 100 mg/l     | Algae   | Practically non toxic |

**Acute crustacean toxicity**

| Product / Substance name<br>CAS / EC no. | Measurement type | Value / Result | Species    | Remark                |
|------------------------------------------|------------------|----------------|------------|-----------------------|
| ZF Lifeguard Hybrid 2<br>-               | LL/EL/IL50       | > 100 mg/l     | crustacean | Practically non toxic |

**Chronic toxicity**

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

**Persistence and degradability**

Not readily biodegradable., Major constituents are inherently biodegradable, but contains components that may persist in the environment., Persistent per IMO criteria., International Oil Pollution Compensation (IOPC) Fund definition: "A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F) and (b) at least 95% of which, by volume, distills at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."

**Bioaccumulative potential**

Contains components with the potential to bioaccumulate.

log Pow: > 6 [Remarks: (based on information on similar products)]

**Mobility in soil****Mobility**

Liquid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile.

Remarks: Floats on water.

**Results of PBT and vPvB assessment**

No data available

**Endocrine disrupting properties**

No data available



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### Other adverse effects

Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential., Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use.

Poorly soluble mixture., Causes physical fouling of aquatic organisms.

## SECTION 13: Disposal considerations

### Disposal methods

#### Disposal considerations

Waste from residues:

Recover or recycle if possible.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Do not dispose into the environment, in drains or in water courses.

Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships. Disposal methods, including disposal of packaging, should be in accordance with the Hazardous Substances (Disposal) Notice 2017 and the Act.

#### Packaging

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## SECTION 14: Transport information

### UN number

Not regulated



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### UN proper shipping name

#### ADR / RID / ADN proper shipping name

Not regulated

#### IMDG proper shipping name

Not regulated

#### IATA proper shipping name

Not regulated

### Transport hazard class(es)

#### Label

Not regulated

#### ADR / RID Class

Not regulated

#### IMDG Class

Not regulated

#### IATA Class

Not regulated

#### ADN Class

Not regulated

### Packing group

Not regulated

### Environmental hazards

No

#### IMDG Marine Pollutant

No

### Special precautions for user

Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

### Transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.



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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### EU regulations

Not Applicable.

#### National regulations

New Zealand Workplace Exposure Limits 2002 (WES). New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

Workplace Exposure Standards and Biological Exposure Indices November 2023.

#### Other regulations, limitations and legal regulations

The components of this product are reported in the following inventories:

US TSCA : All components listed.

NZ NZIoC : All components listed.

### Chemical safety assessment

No data available

## SECTION 16: Other information

#### Phrase meaning

Asp. Tox. 1 - Aspiration hazard, hazard category 1

Skin Sens. 1B - Skin sensitisation, hazard category 1, sub-category 1B

Skin Sens. 1 - Skin sensitisation, hazard category 1

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.



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### Other

#### Additional information

Training advice : Provide adequate information, instruction and training for operators.

Other information For detailed advice on Personal Protective equipment, refer to the following Australian Standards :- HB 9 (Handbook 9). Manual of industrial personal protection. AS/NZS 1337 Eye protectors for industrial applications. AS/NZS 1715 Selection, use and maintenance of respiratory protective devices. AS/NZS 1716 Respiratory protective devices.

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID data base, EC 1272 regulation, etc).

Disclaimer: The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.