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Gulf Harmony ZF Super Clean 100

10116/100/1

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

Product identifier : Gulf Harmony ZF Super Clean 100

Viscosity Grade : ISO VG 100 **Product code Gulf Oil International** : 10116/100/1

Relevant identified uses of the substance or mixture and uses

advised against

Details of the supplier of the safety

data sheet

This oil should not be used for any other purpose than the intended use as a hydraulic oil without expert advice.

: Industrial hydraulic oil.

: Gulf Oil Lubricants India Ltd, IN Centre, 12th Road, Marol, Andheri (East) Mumbai - 400 093

Emergency telephone number : +91 22 66487777

2. HAZARDS IDENTIFICATION

Classification of the substance or

mixture

: Not classified as dangerous under EC criteria.

Most important adverse physico-

chemical effects

: None under normal conditions.

Most important adverse human health: No adverse health effects were noted.

Most important adverse environmental: No specific risk for the environment.

effects

Label elements:

- safety advices : Do not empty into drains; dispose of this material and its container in a safe way.

: Injection under the skin can occur when using high pressure equipment. Overexposure to oil Other hazards

mist may cause respiratory irritations.

Oil mist deposited on surfaces may cause slip hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization		: Mixture of highly refined mineral oils and additives.(PCA-content < 3% - IP 346)					
Substance name		Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Petroleum Distillate	:	0.183 - 0.339 %					R10 Xn; R65 Xi; R38
Alkylphosphonate, I.c. alkyl amine	:	0.06 - 0.112 %					Xi; R36
Aryl amine	:	0.06 - 0.112 %					Xn; R22 R43 N; R50-53
Alkaryl triazole	:	0.03 - 0.055 %					Xn; R22 Xi; R36 R52-53
Long chain alkenyl amine	:	0.003 - 0.006 %					Xn; R22 C; R35 N; R50



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4. FIRST AID MEASURES

Description of first aid measures:

- after inhalation : Assure fresh air breathing. If you feel unwell, seek medical advice.

- after contact with skin : Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water.

Never use kerosine or gasoline for cleaning the skin.

: Rinse immediately with plenty of water. Seek medical attention if irritation develops. - after contact with the eyes

: Do not induce vomiting. Seek medical attention immediately. - after ingestion

- after injection : If injected under the skin when using high pressure equipment, send casualty immediately to

a hospital, even when there are few or no symptoms.

Most important symptoms and effects, :

both acute and delayed

Symptoms of overexposure to vapours include drowsiness, weakness, headache, dizziness,

nausea, vomiting, dimming of vision.

ndication of any immediate medical attention and special treatment needed

High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. Often these injuries require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order

to assess the extent of the injury.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

be used for safety reasons

Special hazards arising from the

substance or mixture

: Water fog. Carbon dioxide. Foam. Dry chemical product.

Extinguishing media which shall not: Do not use a heavy water stream.

: Under fire conditions, hazardous fumes will be present.

: Do not enter fire area without proper protective equipment, including respiratory protection. Advice for firefighters

Wear self-contained breathing apparatus, rubber boots and thick rubber gloves. Use water

spray or fog for cooling exposed containers. Avoid fire-fighting water to enter environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- for non-emergency personnel : Evacuate area.

: Equip cleanup crew with proper protection. Wear suitable protective clothing, gloves and eye - for emergency responders

or face protection. Eliminate every possible source of ignition.

Environmental precautions Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams. Avoid release to the environment. Notify authorities if liquid enters sewers or public

waters. Spill area may be slippery.

Methods and material for containment:

and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it.

Use suitable disposal containers.

Reference to other sections : See Heading 8 & 13



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7. HANDLING AND STORAGE

Precautions for safe handling : Keep away from sources of ignition. No naked lights. No smoking. Use only in well ventilated

areas. Avoid release to the environment. Do no eat, drink or smoke when using this product.

Wash hands and other exposed areas with soap and water before leaving work.

any incompatibilities

Conditions for safe storage, including: Store this product in a dry location where it can be protected from the elements.

Store in tightly closed, properly ventilated containers away from heat, sparks, open flame,

strong oxidizers, radiations, and other initiators. Keep at temperature not exceeding 50℃.

Specific end use(s) : Industrial hydraulic oil.

This oil should not be used for any other purpose than the intended use as a hydraulic oil

without expert advice.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

- Australia : National exposure standards for atmosperic contaminants in the occupational environment;

Time-Weighted Average (normal eight-hour working day, for a five-day working week): 5 mg/ m³ for oil mist, refined mineral. (National Occupational Health & Safety Commission [NOHSC:

1003(1995)]

: The American Conference of Governmental Industrial Hygienists (ACGIH) has assigned - Canada

mineral oil mist a threshold limit value (TLV) of 5 mg/m(3) as a Time Weighted Average (TWA) for a normal 8-hour workday and a 40-hour workweek and a short-term exposure limit (

STEL) of 10 mg/m(3) for periods not to exceed 15 minutes. Exposures at the STEL

concentration should not be repeated more than four times a day and should be separated by intervals of at least 60 minutes.

[ACGIH 1994, p. 28]

- EU : Occupational Exposure Standard (OES) of 5 mg/m3,

8-hour time-weighted average reference period for oil mist.

: The American Conference of Governmental Industrial Hygienists (ACGIH) has assigned - USA

mineral oil mist a threshold limit value (TLV) of 5 mg/m(3) as a Time Weighted Average (TWA) for a normal 8-hour workday and a 40-hour workweek and a short-term exposure limit (

STEL) of 10 mg/m(3) for periods not to exceed 15 minutes. Exposures at the STEL

concentration should not be repeated more than four times a day and should be separated by

intervals of at least 60 minutes.

[ACGIH 1994, p. 28]

Occupational Exposure Limits

Biological limit values : No data available.

Exposure controls:

Individual protection measures, such as personal protective equipment:

- eye / face protection : Chemical goggles or safety glasses (EN 166)

- skin protection : Wear suitable protective clothing.

- hand protection : Wear suitable gloves resistant to chemical penetration. (EN 374)

: The use of Filtertype A (EN 141) is recommended If exceeding the Occupational Exposure - respiratory protection

- others : Do not wear leather soled shoes. **Environmental exposure controls** : Avoid release to the environment.

Gulf Oil International

16 Charles II St. SW1Y 4QU - London - United Kingdom Tel 0207 839 2402 - Fax 0207 839 2399



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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance

- physical state : Oily liquid. - colour : Yellow-brown.

- odour : Light odour of petroleum.

- flash point : 230℃ - density @ 15℃ : 886.2 kg/m³ - solubility in water : Insoluble. - viscosity @ 40℃ : 98.3 cSt : -12℃ - pour point

Other information : See Product Data Sheet for detailed information.

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions. Possibility of hazardous reactions : None under normal conditions. : Extremely high or low temperatures. Conditions to avoid

Incompatible materials : Strong oxidizing agents.

Hazardous decomposition products : None under normal conditions.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

: No specific toxicity data on this product available. - acute toxicity - irritation

: Not expected to be an irritant to eyes or skin.

Inhalation of fumes or vapours may cause respiratory irritation.

- corrosivity : No adverse health effects were noted. : No sensitization effects known. - sensitisation

- carcinogenicity : This product contains mineral oils which are considered to be severely refined and not

considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

- mutagenicity : Not expected to be mutagenetic.

- reproductive toxicity : Not expected to be toxic.

Information on likely routes of exposure:

- after ingestion : Ingestion may cause nausea, vomiting and diarrhoea. - after inhalation : Inhalation of vapours may cause respiratory irritation.

- after skincontact : Prolonged or repeated skin contact with the material will remove natural oils and could lead to

a dermatitis.

: Slight eye irritant upon direct contact. - after eyecontact Symptoms related to the physical,

chemical and toxicological

characteristics

: No adverse health effects were noted.

Delayed and immediate effects as well: No adverse health effects were noted.

as chronic effects from short and longterm exposure

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SECTION 11. TOXICOLOGICAL INFORMATION (continued)

: No data available. Other toxicological information

12. ECOLOGICAL INFORMATION

: No specific ecotoxicity data on this product available. **Toxicity**

Persistence and degradability : Not determined. Bioaccumulative potential : No data available.

: It is to be expected small mobility in soil. Some or a few components may get into the soil and Mobility in soil

may cause pollution of ground water. Product spreads on the water surface.

Results of PBT and vPvB assessment : Not applicable.

: May contaminate water supplies. Other adverse effects

Biodegradation : No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal : Dispose in a safe manner in accordance with local/national regulations.

Waste treatment methods : See Directive 2001/118/EC

Waste Code European Waste List : 13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils.

15 01 10 - packaging containing residues of or contaminated by dangerous substances.

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

: All components listed.

- Australian Inventory of Chemical Substances (AICS)

: All components are in compliance with chemical notification requirements in Australia.

- Canadian Environmental Protection Act (CEPA)

: All components are in compliance with the Canadian Environmental Protection Act (CEPA)

and are present on the Domestic Substances List (DSL).

- European Inventory of Existing **Commercial Chemical Substances** (EINECS)

- USA Toxic Substances Control Act

: All components of this material are on the US TSCA Inventory or are exempt. (TSCA)

: Water Hazard Class: 1 - low hazard to waters - Germany



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16. OTHER INFORMATION

Revision Indicators

Key to abbreviations and acronyms

: None.

used in the safety data sheet

: GOI=Gulf Oil International EC=European Community PCA=PolyCyclicAromats SAE=Society of Automotive Engineers IARC=International Agency for Research on Cancer IP=Istitute of

Petroleum VwVwS=Verwaltungsvorschrift Wassergefahrdende Stoffe

Key literature references and sources : for data

Concawe Report 01/53. Concawe Report 01/54. Concawe Report 05/87.

Regulations (EC) No 1907/2006, 1272/2008 & 453/2010 of the European Parliament and of

the Council.

List of relevant R-phrases

: R10 : Flammable. R22: Harmful if swallowed.

R35 : Causes severe burns. R36: Irritating to eyes. R38: Irritating to skin.

R43: May cause sensitization by skin contact.

R50: Very toxic to aquatic organisms.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65: Harmful: may cause lung damage if swallowed.

Training advice : See information supplied by the manufacturer.

The contents and format of this SDS are in accordance with COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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