

Goldenstone MVR Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 04/08/2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| | |
|-----------------|---------------------------------|
| Product form | : Mixture |
| Product name | : Goldenstone MVR |
| Product code | : I011/01 |
| Type of product | : Lubricants, Functional Fluids |
| Synonyms | : Industrial oils |
| Product group | : Blend |

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use

Industrial/Professional use spec : Functional Fluids

Distribution

Formulation & (re)packing of substances and mixtures

Function or use category : Functional Fluids, Lubricants, Greases and Release Products

1.2.2. Uses advised against

Restrictions on use : Comply with instructions for use (refer to technical sheet)

1.3. Details of the supplier of the safety data sheet

Goldenstone Europe APS
Taarfalkevej 16
2650 Hvidovre
Copenhagen, Denmark.
T +045 32 60 26 50
info@goldenstoneoils.com - <http://www.goldenstoneoils.com>

1.4. Emergency telephone number

Emergency number : Unified emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, the product does not present any particular risk, under normal conditions of use

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

EUH-statements : EUH210 - Safety data sheet available on request

Security closing plug for children : Not applicable

Tactile warning : Not applicable

2.3. Other hazards

Other hazards not contributing to the Classification : None under normal conditions

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Goldenstone MVR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | (CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (REACH-no) 01-2119484627-25-0035; 01-2119484627-25-0025; 01-2119471299-27-0019 | 0 - 100 | Expl. Not classified |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | (CAS-No.) 64742-65-0 (EC-No.) 265-169-7 (REACH-no) 01-2119471299-27-0016; 01-2119471299-27-0003 | 0 - 100 | Not classified |
| Zinc, bis [O- (2-ethylhexyl) O- (2-methylpropyl) phosphorodithioates-κS, κS] -, (T-4) - | (CAS-No.) 26566-95-0 (EC-No.) 247-810-2 (REACH-no) 01-2119937239-30 | < 0.8 | Eye Dam. 1, H318 Aquatic Chronic 2, H411 |

Comments : Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Get immediate medical advice/attention. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell |

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

| | |
|-------------------------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after inhalation | : May cause drowsiness or dizziness. May cause headache, nausea and irritation of respiratory tract. |
| Symptoms/effects after skin contact | : Contact during a long period may cause light irritation. Repeated exposure may cause skin dryness or cracking. |
| Symptoms/effects after eye contact | : May cause slight irritation. redness, itching, tears. |
| Symptoms/effects after ingestion | : Ingestion may cause nausea and vomiting. Risk of lung oedema. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | : In case of fire and/or explosion do not breathe fumes. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released |

5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Evacuate area.

Goldenstone MVR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : On exposure to high temperature, may decompose, releasing toxic gases

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Clean up any spills as soon as possible, using an absorbent material to collect it. Eliminate every possible source of ignition.
- 6.1.1. For non-emergency personnel
- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours.
- 6.1.2. For emergency responders
- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area. Stop release. Cover spill with non combustible material, e.g.: sand/earth. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. Environmental precautions

Avoid release to the environment

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. Use only non-sparking tools.
- Storage conditions : Store in a well-ventilated place. Keep cool.
- Incompatible products : Oxidizing agent. Strong acids. Strong bases.
- Incompatible materials : Sources of ignition

7.3. Specific end use(s)

Product information

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Goldenstone MVR | | |
|--|---------------------------------|----------------------|
| EU | IOELV TWA (mg/m ³) | 5 mg/m ³ |
| EU | IOELV STEL (mg/m ³) | 10 mg/m ³ |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | | |
| EU | IOELV TWA (mg/m ³) | 5 mg/m ³ |
| EU | IOELV STEL (mg/m ³) | 10 mg/m ³ |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | | |
| EU | IOELV TWA (mg/m ³) | 5 mg/m ³ |
| EU | IOELV STEL (mg/m ³) | 10 mg/m ³ |

8.2. Exposure controls

- Appropriate engineering controls:
Ensure good ventilation of the work station.
- Personal protective equipment:
Gloves. Protective clothing. Protective goggles.
- Hand protection:

Goldenstone MVR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

protective gloves: neoprene gloves, PVA. Chemical resistant PVC gloves (to European standard EN 374 or equivalent). EN 420

Eye protection:

Safety glasses. EN 166. EN 168

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 405



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | : Liquid |
| Colour | : brown |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : -15 °C |
| Boiling point | : > 315 °C |
| Flash point | : 250 °C |
| Auto-ignition temperature | : > 315 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : < 10 Pa |
| Relative vapour density at 20 °C | : > 1 |
| Relative density | : No data available |
| Density | : 0.893 g/ml @20°C |
| Solubility | : soluble in most organic solvents. insoluble in water. |
| Log Pow | : No data available |
| Viscosity, kinematic | : 100 cSt @40°C |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Not applicable. |
| Oxidising properties | : Not applicable. |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

Goldenstone MVR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg bodyweight (OECD 401 method) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight (OECD 402 method) |
| LC50 inhalation rat (mg/l) | ≈ 5 mg/l/4h (OECD 403 method) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| LD50 oral rat | > 5000 mg/kg bodyweight (OECD 401 method) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight (OECD 402 method) |
| LC50 inhalation rat (mg/l) | ≈ 5 mg/l/4h (OECD 403 method) |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

| Goldenstone MVR | |
|------------------------|------------------------------|
| Viscosity, kinematic | 100 mm ² /s @40°C |

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

Symptoms

IARC group : 3

SECTION 12: Ecological information

12.1. Toxicity

Ecology – general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment

| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
|---|--|
| LC50 fish 1 | > 100 mg/l (OECD 203 method) |
| EC50 Daphnia 1 | > 10000 mg/l (OECD 202 method) |
| EC50 72h algae (1) | > 1000 mg/l (OECD 201 method) |
| NOEL, aquatic invertebrates, Chronic | < 1 mg/l (21 days, (OECD 211 method)) |
| NOEL, algae, Chronic | > 100 mg/l (72 Hours, (OECD 201 method)) |
| NOEL, microorganisms, Chronic | > 1.93 mg/l (10 minutes, DIN 38412) |
| NOEL, daphnia, Chronic | > 10 mg/l (21 days) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| LC50 fish 1 | > 100 mg/l (OECD 203 method) |
| EC50 Daphnia 1 | > 10000 mg/l (OECD 202 method) |
| EC50 72h algae (1) | > 1000 mg/l (OECD 201 method) |
| NOEL, aquatic invertebrates, Chronic | < 1 mg/l (21 days, (OECD 211 method)) |
| NOEL, algae, Chronic | > 100 mg/l (72 Hours, (OECD 201 method)) |
| NOEL, microorganisms, Chronic | > 1.93 mg/l (10 minutes, DIN 38412) |
| NOEL, daphnia, Chronic | > 10 mg/l (21 days) |

12.2. Persistence and degradability

| Goldenstone MVR | |
|---|--|
| Persistence and degradability | Not readily biodegradable, according to appropriate OECD test due to properties of several components. |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| Persistence and degradability | Not readily biodegradable, according to appropriate OECD test due to properties of several components. |
| Biodegradation | < 32 % (OECD 301B method) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| Persistence and degradability | Not readily biodegradable, according to appropriate OECD test due to properties of several components. |
| Biodegradation | < 32 % (OECD 301B method) |

12.3. Bioaccumulative potential

| Goldenstone MVR | |
|--|------------------------------------|
| Bioaccumulative potential | Bioaccumulative potential. |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| Log Kow | 3.5 - 6 Moderately bioaccumulative |

Goldenstone MVR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|---------|------------------------------------|
| Log Kow | 3.5 - 6 Moderately bioaccumulative |
|---------|------------------------------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Goldenstone MVR

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

| Component | |
|--|---|
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | PBT: not relevant – no registration required vPvB: not relevant – no registration required |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | PBT: not relevant – no registration required vPvB: not relevant – no registration required |

12.6. Other adverse effects

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 13 03 05* - synthetic insulating and heat transmission oils

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not regulated
UN-No. (IMDG) : Not regulated
UN-No. (IATA) : Not regulated
UN-No. (ADN) : Not regulated
UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated
Proper Shipping Name (ADN) : Not regulated
Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : Not regulated
IMDG
Transport hazard class(es) (IMDG) : Not regulated
IATA
Transport hazard class(es) (IATA) : Not regulated
ADN
Transport hazard class(es) (ADN) : Not regulated
RID
Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated
Packing group (ADN) : Not regulated
Packing group (RID) : Not regulated

Goldenstone MVR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport
Not regulated

- Transport by sea
Not regulated

- Air transport
Not regulated

- Inland waterway transport
Not regulated

- Rail transport
Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms

| | |
|-------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| BCF | Bioconcentration factor |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| DPD | Dangerous Preparations Directive 1999/45/EC |
| DSD | Dangerous Substances Directive 67/548/EEC |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| vPvB | Very Persistent and Very Bioaccumulative |

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Goldenstone MVR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information : None.

Full text of H- and EUH-statements:

| | |
|----------------------|---|
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Expl. Not classified | Explosive Not classified |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| H318 | Causes serious eye damage |
| H411 | Toxic to aquatic life with long lasting effects |
| EUH210 | Safety data sheet available on request |

SDS EU (REACH Annex II) Goldenstone

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product