ISO 68
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 01/05/2021 Version: 1

Product form: Mixture

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

1.1. Product identifier
Product name: ISO 68
Product code: 401600, 401601, 401602
Product group: Motor Oil

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

1.2.1. Relevant identified uses
Main use category: Industrial use, Professional use, Consumer use
Industrial/Professional use spec: Non-dispersive use
Function or use category: Used in closed systems

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

Valeo Service
70 Rue Pleyel
93200 Saint Denis France
Tel. +33 (0)1 49 45 32 32
vsaop.contact.mailbox@valeo.com

1.4. Emergency telephone number
Emergency number / Poison Center: +33 1 49 45 32 32 (working hours) / +33 3 83 85 21 92
OR Please contact local poison center (https://apps.who.int/poisoncentres/PoisonCentres_201902.pdf)

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

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture
Not classified

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
No labelling applicable

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures
Comments: The mineral oils in the product contain < 3% DMSO extract (IP 346)

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)</td>
<td>(CAS-No.) 4259-15-8 (EC-No.) 224-235-5 (REACH-no) 01-2119493635-27</td>
<td>0,1 - 0,25</td>
<td>Eye Dam. 1, H318 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>2,6-Di-tert-butylphenol</td>
<td>(CAS-No.) 128-39-2 (EC-No.) 204-884-0 (REACH-no) 01-2119490822-33</td>
<td>0,1 - 0,15</td>
<td>Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
### ISO 68

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#### Section 4. First Aid Measures

**First-aid measures after inhalation**: Not expected to require first aid measures.

**First-aid measures after skin contact**: Wash skin with mild soap and water.

**First-aid measures after eye contact**: In case of eye contact, immediately rinse with clean water for 10-15 minutes.

**First-aid measures after ingestion**: Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

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

**Symptoms/effects after inhalation**: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

**Symptoms/effects after skin contact**: Not expected to present a significant skin hazard under anticipated conditions of normal use.

**Symptoms/effects after eye contact**: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.

**Symptoms/effects after ingestion**: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

#### Section 5: Firefighting measures

**5.1. Extinguishing media**


Unsuitable extinguishing media: Do not use a heavy water stream.

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

No additional information available

**5.3. Advice for firefighters**

**Precautionary measures fire**: Exercise caution when fighting any chemical fire.

**Firefighting instructions**: Use water spray or fog for cooling exposed containers.

**Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.

#### Section 6: Accidental release measures

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

**6.1.1. For non-emergency personnel**

Protective equipment: Wear suitable protective clothing and gloves.

**6.1.2. For emergency responders**

Protective equipment: Wear suitable protective clothing and gloves.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

**For containment**: Impound and recover large spill by mixing it with inert granular solids.

**Methods for cleaning up**: Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.

**Other information**: Spill area may be slippery. Use suitable disposal containers.

**6.4. Reference to other sections**

No additional information available

#### Section 7: Handling and storage

**7.1. Precautions for safe handling**

**Precautions for safe handling**: Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.

**Handling temperature**: < 40 °C

**Hygiene measures**: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

**Storage temperature**: < 40 °C

**Storage area**: Store in dry, cool, well-ventilated area.

**7.3. Specific end use(s)**

No additional information available

#### Section 8: Exposure controls/personal protection

**8.1. Control parameters**

**Additional information**: 5 mg/m³ for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis
8.2. Exposure controls

Personal protective equipment:
Safety glasses. Gloves.

Hand protection:
Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0.35 mm. Nitrile rubber (NBR) /

Skin and body protection:
No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:
No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Oily liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Yellow-brown.</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 195 °C @ ASTM D92</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>879 kg/m³ @15°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Slightly soluble, the product remains on the water surface.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>68 mm²/s @ 40°C</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
None under normal conditions.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal conditions.

10.4. Conditions to avoid

No additional information available
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No data available.

10.5. Incompatible materials
Strong oxidizers, acids, bases.

10.6. Hazardous decomposition products
None under normal conditions.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

<table>
<thead>
<tr>
<th>LD50 oral rat</th>
<th>3100 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

ISO 68
Viscosity, kinematic 68 mm²/s @ 40°C

SECTION 12: Ecological information
12.1. Toxicity
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

<table>
<thead>
<tr>
<th>LC50 fish 1</th>
<th>4.4 mg/l Oncorhynchus mykiss OECD 203</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 2</td>
<td>≥ 0 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>75 mg/l Daphnia Magna OECD 201</td>
</tr>
<tr>
<td>EC50 96h algae (1)</td>
<td>240 mg/l Scenedesmus Subspicatus OECD 201 @21d</td>
</tr>
<tr>
<td>NOEC (acute)</td>
<td>220 mg/l Scenedesmus subspicatus OECD201 - biomass</td>
</tr>
<tr>
<td>NOEC (chronic)</td>
<td>0.4 mg/l Daphnia Magna OECD 211 @21d - results analog product</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
ISO 68
Persistence and degradability Not soluble in water, so only minimally biodegradable.

12.3. Bioaccumulative potential
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

Log Kow 3.59

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Additional information : Dispose in a safe manner in accordance with local/national regulations.
## SECTION 14: Transport information

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

### 14.1. UN number

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

### 14.2. UN proper shipping name

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

### 14.3. Transport hazard class(es)

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

### 14.4. Packing group

| Packing group (ADR) | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN) | : Not applicable |
| Packing group (RID) | : Not applicable |

### 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 applicable |
| Transport by sea | Not applicable |
| Air transport | Not applicable |
| Inland waterway transport | Not applicable |
| Rail transport | Not applicable |

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

Not applicable
### 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

#### Germany

**Reference to AwSV**: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### Netherlands

**SZW-lijst van kankerverwekkende stoffen**: None of the components are listed  
**SZW-lijst van mutagene stoffen**: None of the components are listed  
**NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding**: None of the components are listed  
**NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbareheid**: None of the components are listed  
**NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling**: None of the components are listed

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier.
### SECTION 16: Other information

<table>
<thead>
<tr>
<th>Indication of changes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section</td>
</tr>
<tr>
<td>Supersedes</td>
</tr>
<tr>
<td>Revision date</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>9.1</td>
</tr>
</tbody>
</table>

#### Abbreviations and acronyms:

- ACGIH: American Conference of Governmental Industrial Hygienists
- TWA: Time Weighted Average
- TLV: Threshold Limit Value
- ASTM: American Society for Testing and Materials
- ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- ICAO: International Civil Aviation Organization
- IATA: International Air Transport Association
- STEL: Short Term Exposure Limit
- LD50: median Lethal Dose for 50% of subjects
- ATE: acute toxicity estimate
- LC50: median Lethal Concentration for 50% of subjects
- EC50: concentration producing 50% effect

#### Other information:

- The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

#### Full text of H- and EUH-statements:

| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
### Aquatic Chronic 2
- Hazardous to the aquatic environment — Chronic Hazard, Category 2

### Eye Dam. 1
- Serious eye damage/eye irritation, Category 1

### Skin Irrit. 2
- Skin corrosion/irritation, Category 2

### H315
- Causes skin irritation.

### H318
- Causes serious eye damage.

### H400
- Very toxic to aquatic life.

### H410
- Very toxic to aquatic life with long lasting effects.

### H411
- Toxic to aquatic life with long lasting effects.

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**SDS EU (REACH Annex II)**

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.