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

1.1. Product identifier
Product form: Mixture
Product name: UTTO 100
Product code: 3120
Product group: Blend

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
Used in closed systems
Function or use category: Lubricants and additives

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
WOLF OIL CORPORATION N.V.
Georges Gilliotstraat, 52
2620 Hemiksem - België
T 0032 (0)3 870 00 00 - F 0032 (0)3 870 00 99
info@wolfoil.com

1.4. Emergency telephone number
Emergency number: +32 14 58 45 45 (NL/EN/FR/DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hazardous to the aquatic environment — Chronic Hazard, Category 3  H412
Full text of H statements: see section 16

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

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Signal word (CLP): -
Hazard statements (CLP): H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP): P273 - Avoid release to the environment
EUH-statement: EUH208 - Contains C14-18 alpha-olefin epoxide, reaction products with boric acid, Triphenyl phosphorile(101-02-0). May produce an allergic reaction

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture
### Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP]
---|---|---|---
Zinc bis[(O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | (CAS No) 4259-15-8 (EC no) 224-235-5 (REACH no) 01-2119493635-27 | 1 - 2.49 | Eye Dam. 1, H318 Aquatic Chronic 2, H411
C14-18 alpha-olefin epoxide, reaction products with boric acid | (EC no) 939-580-3 (REACH no) 01-211976364-28 | 0.1 - 0.99 | Skin Sens. 1B, H317
Triphenyl phosphite | (CAS No) 101-02-0 (EC no) 202-908-4 (EC index no) 015-105-00-7 | 0.01 - 0.15 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of 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.

#### 4.2. Most important symptoms and effects, both acute and delayed
- **Symptoms/injuries after inhalation**: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **Symptoms/injuries after skin contact**: Not expected to present a significant skin hazard under anticipated conditions of normal use.
- **Symptoms/injuries after eye contact**: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- **Symptoms/injuries after ingestion**: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media
- **Suitable extinguishing media**: Water fog. Foam. Powder. Dry chemical product.
- **Unsuitable extinguishing media**: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture
No additional information available

### 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 according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Oily liquid.
Colour: Yellow-brown.
Odour: Characteristic.
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: > 200 °C @ ASTM D92
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Density: 868 kg/m³ @15°C
Solubility: Slightly soluble, the product remains on the water surface.
Log Pow: No data 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 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: Not classified

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

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>3100 mg/kg</td>
</tr>
<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 (Based on available data, the classification criteria are not met)</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>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity

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

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>4,4 mg/l Oncorhynchus mykiss OECD 203</td>
</tr>
<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>

**C14-18 alpha-olefin epoxide, reaction products with boric acid**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 100 mg/l (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 100 mg/l (Daphnia magna)</td>
</tr>
<tr>
<td>EC50 72h algae (1)</td>
<td>&gt; 100 mg/l (Selenastrum capricomutum)</td>
</tr>
</tbody>
</table>
**C14-18 alpha-olefin epoxide, reaction products with boric acid**

**NOEC (acute)**  
32 mg/l @ 2DY (Daphnia magna)

**Triphenyl phosphite (101-02-0)**

**LC50 fish 1**  
0,94 mg/l (Daphnia magna)

### 12.2. Persistence and degradability

**UTTO 100**

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

**Triphenyl phosphite (101-02-0)**

**BOD (% of ThOD)**  
0,14 % ThOD

### 12.3. Bioaccumulative potential

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

**Log Kow**  
3,59

**C14-18 alpha-olefin epoxide, reaction products with boric acid**

**Log Kow**  
9,4 Calc.

**Triphenyl phosphite (101-02-0)**

**Log Kow**  
6,25 @25°C Calc.

### 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
  No data available
- Transport by sea
  No data available
- Air transport
  No data available
- Inland waterway transport
  No data available
- Rail transport
  No data available

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

Germany
VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (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-lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-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
Indication of changes:

<table>
<thead>
<tr>
<th>Section</th>
<th>Changed Item</th>
<th>Change</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Revision date</td>
<td></td>
<td>Modified</td>
</tr>
<tr>
<td></td>
<td>Supersedes</td>
<td></td>
<td>Modified</td>
</tr>
<tr>
<td>3</td>
<td>Composition/information on ingredients</td>
<td></td>
<td>Modified</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:

Acute Tox. 4 (Oral)  | Acute toxicity (oral), Category 4
Acute Acute 1       | Hazardous to the aquatic environment — Acute Hazard, Category 1
Acute Chronic 1     | Hazardous to the aquatic environment — Chronic Hazard, Category 1
Acute Chronic 2     | Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1          | Serious eye damage/eye irritation, Category 1
Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2
Skin Irrit. 2       | Skin corrosion/irritation, Category 2
Skin Sens. 1        | Sensitisation — Skin, Category 1
Skin Sens. 1B       | Sensitisation — Skin, category 1B
H302                | Harmful if swallowed
H315                | Causes skin irritation
H317                | May cause an allergic skin reaction
H318                | Causes serious eye damage
H319                | Causes serious eye irritation
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
H412                | Harmful to aquatic life with long lasting effects
EUH208              | Contains . May produce an allergic reaction

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.