1 Identification

Product identifier

Trade name: Rislone® ZDDP Engine Oil Supplement
Product code: 4405

Recommended use and restriction on use
Recommended use: Oil Additive.
Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet
Manufacturer/Supplier:
Rislone
P.O. Box 187
Holly, MI 48442 USA
Phone: (810) 603-1321

Emergency telephone number:
ChemTel Inc.
(800)255-3924 (North America)
+1 (813)248-0585 (International)

2 Hazard(s) identification

Classification of the substance or mixture
Skin Irrit. 2  H315  Causes skin irritation.
Eye Irrit. 2A H319  Causes serious eye irritation.

Label elements
GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:

⚠️
GHS07

Signal word: Warning

Hazard statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements:
P264  Wash hands thoroughly after handling.
P280  Wear protective gloves and eye protection.
P302+P352  If on skin: Wash with plenty of soap and water.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313  If skin irritation occurs: Get medical advice/attention.
P362+P364  Take off contaminated clothing and wash it before reuse.
P337+P313  If eye irritation persists: Get medical advice/attention.

Other hazards  There are no other hazards not otherwise classified that have been identified.

(Cont'd. on page 2)
Trade name: Rislone® ZDDP Engine Oil Supplement

3 Composition/information on ingredients

Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>Description</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>68649-42-3</td>
<td>Phosphorothioic acid, O,O-di-C1-14-alkyl esters, zinc salts</td>
<td>10-&lt;20%</td>
</tr>
<tr>
<td>128218-63-3</td>
<td>Butenedioic acid (Z)-, dibutyl ester, polymer with 1-hexdecene and 1-tetradecene</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>61789-86-4</td>
<td>Calcium petroleum sulfonate</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>68584-23-6</td>
<td>Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

Additional information:
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 product meets these requirements.
For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

Description of first aid measures
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
Immediately remove any clothing soiled by the product.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
After eye contact:
Protect unharmed eye.
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
Most important symptoms and effects, both acute and delayed:
Irritant to skin and mucous membranes.
Irritating to eyes.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents:
Foam
### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Particular danger of slipping on leaked/spilled product.

**Environmental precautions**
Avoid release to the environment.
Prevent from spreading (e.g. by damming-in or oil barriers).

**Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Remove from the water surface (e.g. skim or suck off).
Send for recovery or disposal in suitable receptacles.

**Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

### 7 Handling and storage

**Handling**
**Precautions for safe handling:**
Avoid splashes or spray in enclosed areas.
Use only in well ventilated areas.
Handle with care.
Avoid contact with the eyes and skin.
Avoid breathing mist, vapors, or spray.
Keep out of reach of children.

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

**Requirements to be met by storerooms and receptacles:**
Avoid storage near extreme heat, ignition sources or open flame.
Store in cool, dry conditions in well sealed receptacles.

**Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.

**Specific end use(s)** No relevant information available.
Safety Data Sheet  
according to OSHA HCS (29CFR 1910.1200)  
Revision: August 21, 2019

Trade name: Rislane® ZDDP Engine Oil Supplement

(Cont’d. of page 3)

8 Exposure controls/personal protection

Control parameters
Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls
General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed. 
Keep away from foodstuffs, beverages and feed. 
Immediately remove all soiled and contaminated clothing. 
Wash hands before breaks and at the end of work. 
Avoid contact with the eyes and skin. 
Avoid breathing mist, vapors, or spray.
Engineering controls: No relevant information available.
Breathing equipment:
Not required under normal conditions of use. 
Use suitable respiratory protective device when aerosol or mist is formed. 
For spills, respiratory protection may be advisable.
Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 

Eye protection:

Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment
No relevant information available.
Risk management measures No relevant information available.

(Cont’d. on page 5)

9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance:
Form: Liquid
Color: Yellow
Odor: Mild
Odor threshold: Not determined.

pH-value: Not determined.
Melting point/Melting range: Not determined.
Boiling point/Boiling range: Not determined.
Safety Data Sheet  
according to OSHA HCS (29CFR 1910.1200)  

Revision: August 21, 2019

Trade name: Rislon® ZDDP Engine Oil Supplement

(Cont’d. of page 4)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>&gt;130 °C (&gt;266 °F)</td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Oxidizing properties:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Density:</td>
<td></td>
</tr>
<tr>
<td>Relative density:</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water:</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Kinematic at 40 °C (104 °F):</td>
<td>&gt;20.5 mm²/s</td>
</tr>
<tr>
<td>Other information:</td>
<td>No relevant information available.</td>
</tr>
</tbody>
</table>

10 Stability and reactivity

Reactivity: No relevant information available.
Chemical stability: Stable under normal temperatures and pressures.
Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
To avoid thermal decomposition, do not overheat.

Possibility of hazardous reactions
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong oxidizing agents.

Conditions to avoid Excessive heat.

Incompatible materials Oxidizers

Hazardous decomposition products
Under fire conditions only:
Carbon monoxide and carbon dioxide
Hydrocarbons
Phosphorus oxides (e.g. P2O5)
Sulfur oxides (SOx)
Toxic metal oxide smoke

(Cont’d. on page 6)
11 Toxicological information

Information on toxicological effects
Acute toxicity: Based on available data, the classification criteria are not met.
LD/LC50 values that are relevant for classification: None.
Primary irritant effect:
On the skin: Irritant to skin and mucous membranes.
On the eye: Causes serious eye irritation.
Sensitization: Based on available data, the classification criteria are not met.

Carcinogenic categories

IARC (International Agency for Research on Cancer):
None of the ingredients are listed.

NTP (National Toxicology Program):
None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):
None of the ingredients are listed.

Probable route(s) of exposure:
Ingestion.
Inhalation.
Eye contact.
Skin contact.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
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.

12 Ecological information

Toxicity
Aquatic toxicity No relevant information available.
Persistence and degradability No relevant information available.
Bioaccumulative potential: No relevant information available.
Mobility in soil: No relevant information available.

Ecotoxicological effects:
Remark: Due to mechanical actions of the product (e.g. agglutinations), damages may occur.

Additional ecological information
General notes: Avoid release to the environment.

Other adverse effects No relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation:
Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont’d. of page 6)

Contact waste processors for recycling information.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packagings
Recommendation: Disposal must be made according to official regulations.

14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>DOT, ADR/RID/ADN, IMDG, IATA</th>
<th>Not regulated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>DOT, ADR/RID/ADN, IMDG, IATA</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>DOT, ADR/RID/ADN, IMDG, IATA</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Class</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td>DOT, ADR/RID/ADN, IMDG, IATA</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Danger code (Kemler):</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)
SARA

Section 302 (extremely hazardous substances):
None of the ingredients are listed.

Section 355 (extremely hazardous substances):
None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):
Substance / component not listed individually, but listed under family group as Zinc salts.

68649-42-3 Phosphorodithioc acid, O,O-di-C1-14-alkyl esters, zinc salts

TSCA (Toxic Substances Control Act)
All ingredients are listed or exempt.

(Cont’d. on page 8)
Trade name: Rislone® ZDDP Engine Oil Supplement

### Proposition 65 (California)

<table>
<thead>
<tr>
<th>Chemicals known to cause cancer:</th>
<th>None of the ingredients are listed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemicals known to cause developmental toxicity for females:</td>
<td>None of the ingredients are listed.</td>
</tr>
<tr>
<td>Chemicals known to cause developmental toxicity for males:</td>
<td>None of the ingredients are listed.</td>
</tr>
<tr>
<td>Chemicals known to cause developmental toxicity:</td>
<td>None of the ingredients are listed.</td>
</tr>
<tr>
<td>EPA (Environmental Protection Agency):</td>
<td>None of the ingredients are listed.</td>
</tr>
<tr>
<td>IARC (International Agency for Research on Cancer):</td>
<td>None of the ingredients are listed.</td>
</tr>
</tbody>
</table>

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

**Date of preparation / last revision** August 21, 2019 / -

**Abbreviations and acronyms:**
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- OSHA: Occupational Safety & Health Administration
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- Skin Irr. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Skin Sens. 1B: Skin sensitisation – Category 1B

**Sources**
- Website, European Chemicals Agency (echa.europa.eu)
- Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
- Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
- Safety Data Sheets, Individual Manufacturers

**SDS Prepared by:**
Trade name: Rislone® ZDDP Engine Oil Supplement

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