

Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 11.02.2016

Revision: 11.02.2016

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

- **Product identifier**
- **Trade name: Rislone® ZDDP Engine Oil Supplement**
- **Product code: 44405**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture:** Oil additive.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Rislone
P.O. Box 187
Holly, MI 48442 USA
Phone: (810) 603-1321
- **Distributor:**



- **Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

- **Classification (Australia, New Zealand)**
Australia NOHSC – Hazardous Substance (Classified according to Worksafe Australia NOHSC 2011 National Code of Practice)
Australia ADG – Non-Dangerous Goods (Classified according to National Transport Commission Australian Dangerous Goods Code)
New Zealand HSNO - Hazardous (Classified according to the Minimum Degrees of Hazard Regulations 2001)
- **Hazard statements (New Zealand HSNO Classification)**
HSNO 6.3A Skin Irr. 2 H315 Causes skin irritation.
HSNO 8.3A Eye Dam.1 H318 Causes serious eye damage.
HSNO 9.1D Aquatic Acute 3 H402 Harmful to aquatic life.
HSNO 9.2C H423 Harmful to the soil environment.
HSNO 9.3C H433 Harmful to terrestrial vertebrates.
HSNO 9.1C Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **GHS label elements**
Classifications listed also are applicable to the Australian and the New Zealand Codes of Practice for the writing of Safety Data Sheets.
The product is classified and labelled according to the Globally Harmonised System (GHS).

(Cont'd. on page 2)

Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 11.02.2016

Revision: 11.02.2016

Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont'd. from page 1)

· **Hazard pictograms**

GHS05

· **Signal word** Danger· **Hazard-determining components of labelling:**

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts
Distillates (petroleum), hydrotreated heavy paraffinic, <3% dimethyl sulfoxide)

· **Hazard statements**

The following Hazard Statements are only applicable to New Zealand, and are not applicable to Australia:

H402, H423, H433, H412.

H402 Harmful to aquatic life.

H423 Harmful to the soil environment.

H433 Harmful to terrestrial vertebrates.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterisation: Mixtures**· **Components:**

| | | |
|------------|--|--------|
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic, <3% dimethyl sulfoxide) Aquatic Chronic 4, H413 | > 60% |
| 68457-79-4 | Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts Eye Dam. 1, H318 Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Aquatic Acute 2, H401 | 10-20% |

· **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',

(Cont'd. on page 3)

Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 11.02.2016

Revision: 11.02.2016

Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont'd. from page 2)

Institute of Petroleum, London. This product meets these requirements.

For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.

For the wording of the listed Hazard Statements refer to section 16.

| · Notable Trace Components (≤ 0,1% w/w) | | |
|--|----------------------------|---|
| 121158-58-5 | Phenol, dodecyl-, branched | Repr. 2, H361 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Eye Irrit. 2A, H319 |

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; call for medical help immediately.
- **Most important symptoms and effects, both acute and delayed**
Irritant to skin and mucous membranes.
Strong irritant with the danger of severe eye injury.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
- **Hazards:** Causes serious eye damage.
- **Indication of any immediate medical attention and special treatment needed**
Medical supervision for at least 48 hours.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Foam
Carbon dioxide
Gaseous extinguishing agents
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

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.

(Cont'd. on page 4)

Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 11.02.2016

Revision: 11.02.2016

Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont'd. from page 3)

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

- **Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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.

- **Information about fire - and explosion protection:** No special measures required.

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

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**

- **Ingredients 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.

- **DNELs:** No further relevant information available.

- **PNECs:** No further relevant information available.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

(Cont'd. on page 5)

Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 11.02.2016

Revision: 11.02.2016

Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont'd. from page 4)

- **Respiratory protection:**

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:**

Contact lenses should not be worn.



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment:** No further relevant information available.

- **Risk management measures:** No further relevant information available.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance**

Form: Liquid

Colour: Yellow

- **Odour:** Mild

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Melting point/Melting range:** Not determined.

- **Boiling point/Boiling range:** > 329 °C (> 624 °F)

- **Flash point:** 204 °C (399 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Auto/Self-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits**

Lower: Not determined.

Upper: Not determined.

- **Oxidising properties** Not determined.

- **Vapour pressure:** Not determined.

- **Density at 20 °C (68 °F):** 0.91 g/cm³ (7.594 lbs/gal)

- **Relative density:** Not determined.

- **Vapour density:** Not determined.

(Cont'd. on page 6)

Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 11.02.2016

Revision: 11.02.2016

Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont'd. from page 5)

- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity**
 - Dynamic:** Not determined.
 - Kinematic at 40 °C (104 °F):** 57.8 cSt
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further 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 acids and oxidising agents.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Hydrocarbons
Phosphorus oxides (e.g. P2O5)
Sulphur oxides (SOx)
Toxic metal oxide smoke

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect**
- **Skin corrosion/irritation:** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation:** Causes serious eye damage.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

| |
|--|
| · IARC (International Agency for Research on Cancer): |
|--|

| |
|-------------------------------------|
| None of the ingredients are listed. |
|-------------------------------------|

- **Probable routes of exposure:**
Ingestion.
Inhalation.
Eye contact.
Skin contact.
- **Acute effects (acute toxicity, irritation and corrosivity):** Causes serious eye damage.
- **Repeated dose toxicity:** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.

(Cont'd. on page 7)

Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 11.02.2016

Revision: 11.02.2016

Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont'd. from page 6)

- **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:**
Harmful to aquatic life with long lasting effects.

68457-79-4 Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

| | |
|------|-------------------------------------|
| LC50 | 1.0 -5.0 mg/l (pimephales promelas) |
| EC50 | 1.0 -1.5 (daphnia) |

- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **New Zealand HSNO Environmental Code(s)**
HSNO Class: 9.1C =Harmful to aquatic life with long lasting effects.
HSNO Class: 9.2C =Harmful to the soil environment.
HSNO Class: 9.3C =Harmful to terrestrial vertebrates.
HSNO Class: 9.1D =Harmful to aquatic life.
- **Ecotoxicological effects:**
- **Remark:**
Harmful to fish
Due to mechanical actions of the product (e.g. agglutinations), damages may occur.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms
Avoid release to the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Contact waste processors for recycling information.
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
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 packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Solvent naphtha

(Cont'd. on page 8)

Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 11.02.2016

Revision: 11.02.2016

Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont'd. from page 7)

14 Transport information

- **UN-Number**
- **DOT, ADG, IMDG, IATA** Not Regulated
- **UN proper shipping name**
- **DOT, ADG, IMDG, IATA** Not Regulated
- **Transport hazard class(es)**
- **DOT, ADG, IMDG, IATA**
- **Class** Not Regulated
- **Packing group**
- **DOT, ADG, IMDG, IATA** Not Regulated
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Danger code (Kemler):** -
- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

15 Regulatory information

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

· **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.

68457-79-4 | Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Carcinogenic Categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **Australian Inventory of Chemical Substances**

Some ingredients listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

TGA Schedule 5 poison (Hydrocarbon Liquids)

· **HSNO Chemical Classification and Information Database (CCID)**

91-20-3 | naphthalene

· **New Zealand Inventory of Chemicals (NZIOC)**

All ingredients are listed.

· **Chemical safety assessment**

New Zealand

Group Standard Allocation and EPA Approval Code:

Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2006

HSNO Approval-HSR002606

HSNO Control & Classes: 6.3A, 8.3A, 9.1D, 9.2C, 9.3C, 9.1C Trigger quantities for this substance: Trigger

(Cont'd. on page 9)

Safety Data Sheet

According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of Practice

Printing date: 11.02.2016

Revision: 11.02.2016

Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont'd. from page 8)

Quantity

Approved Handler Not Required

Location Certificate Not Required

Tracking Trigger Quantities Not applicable

Signage Trigger Quantities 1 000L (9.1C)

Emergency Response Plan trigger Quantities 1 000L (9.1C)

· **Named dangerous substances - ANNEX I** None of the ingredients are listed.· **Other regulations, limitations and prohibitive regulations**· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

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.

H318 Causes serious eye damage.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

· **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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - AcuteHazard, Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - AcuteHazard, Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

· **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)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

(Cont'd. on page 10)

Safety Data Sheet
According to Australia NOHSC (2011) and NZ HSNO (2006) Codes of
Practice

Printing date: 11.02.2016

Revision: 11.02.2016

Trade name: Rislone® ZDDP Engine Oil Supplement

(Cont'd. from page 9)

Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com