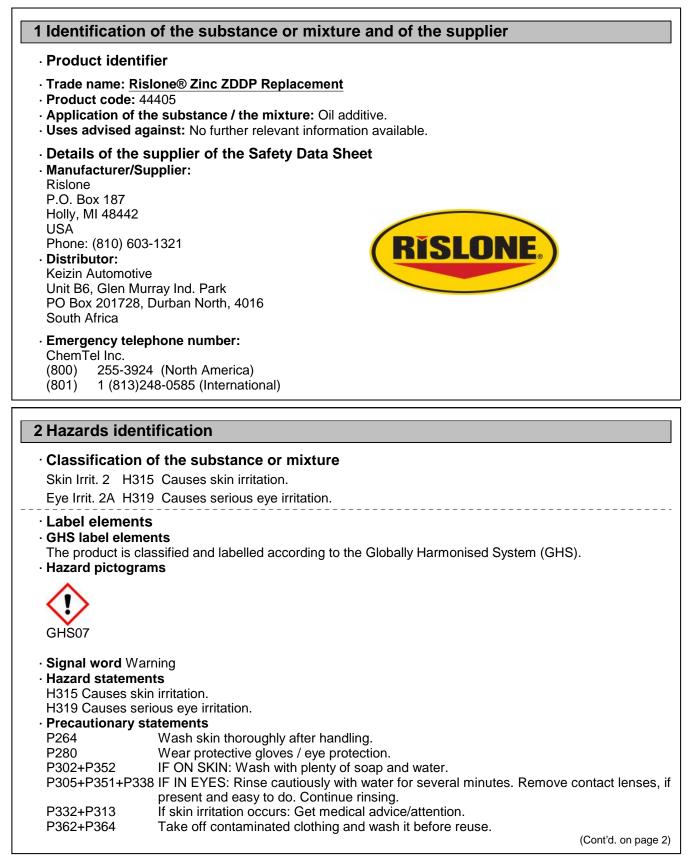
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P337+P313 If eye irritation persists: Get medical advice/attention.

• 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:

•	
68649-42-3 Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	10-<20%
🚯 Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
61789-86-4 Calcium petroleum sulfonate	<1%
🚯 Skin Sens. 1, H317	
68584-23-6 Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	<1%
🚸 Skin Sens. 1, H317	
A delition of information.	

· 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 percentages are being withheld as a trade secret.

For the listed ingredient(s), the identity and/or exact percentages 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; call for medical help immediately.
 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.

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5 Fire-fighting 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. 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/vapours/spray. Keep out of reach of children.
- · Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and receptacles:

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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 oxidising agents.
- · 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.

· Exposure controls

· 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. Avoid contact with the eyes and skin. Avoid breathing mist/vapours/spray.

· 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:**



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:

Colour:

Liquid Yellow

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		(Cont'd. from pag
· Odour: · Odour threshold:	Mild Not determined.	
 pH-value: Melting point/freezing point: Initial boiling point and boiling range: 	Not determined. Not determined. Not determined.	
· Flash point:	>130 °C	
· Flammability (solid, gas):	Not applicable.	
· Auto/Self-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Explosive properties:	Product does not present an explosion hazard.	
 Explosion limits Lower: Upper: Oxidising properties 	Not determined. Not determined. Not determined.	
· Vapour pressure:	Not determined.	
 Density: Relative density: Vapour density: Evaporation rate: 	<1 Not determined. Not determined.	
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
 Viscosity Dynamic: Kinematic at 40 °C: Other information 	Not determined. >20.5 mm²/s 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 oxidising agents.
- Conditions to avoid Excessive heat.
- · Incompatible materials Oxidisers
- Hazardous decomposition products

Under fire conditions only:

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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: Based on available data, the classification criteria are not met.
- · 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 irritation.
- 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.
- · 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 further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical 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.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

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13 Disposal considerations

· Waste treatment methods

· Recommendation

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 packaging:

· Recommendation: Disposal must be made according to official regulations.

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

15 Regulatory information

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

· IARC (International Agency for Research on Cancer)

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.

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Trade name: Rislone® Zinc ZDDP Replacement (Cont'd. from page 7) · Relevant phrases H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. · 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Skin Sens. 1: Skin sensitisation - Category 1 · 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: 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 Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com