## SAFETY DATA SHEET

Gear Saver Hypoid Gear Oil 80W-90



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

1.1 Product identifier

: Gear Saver Hypoid Gear Oil 80W-90 **Product name** 

: ECP5-K7N7-DJ6W-G38A UFI

**Product code** : 301706150160 : Lubricating Oil **Product description** 

**Product type** : Liquid.

Other means of identification

: Not available.

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

**Identified uses** 

Lubricating Oil

Uses advised against

None known.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer:

Calumet Branded Products, LLC 1060 N Capitol Ave Suite 6-401 Indianapolis, IN 46204

USA

Technical Services:317-328-5660

Supplier:

Monument Chemical BVBA Haven 1972. Ketenislaan 3 B-9130 Kallo (Kieldrecht) Belgium

+32 3 570 28 11

e-mail address of person responsible for this SDS

: technical@calumetspecialty.com

### 1.4 Emergency telephone number

**National advisory body/Poison Centre** 

Telephone number : 0800-181-7059

**CHEMTREC** 

Telephone number : 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

Belgium: +(32)-28083237

Czech Republic: +(420)-228880039

Denmark: +(45)-69918573 Finland: +(358)-942419014 France: +(33)-975181407

Germany: 0800-181-7059, +(49)-69643508409

Greece: +(30)-2111768478 Ireland: +(353)-19014670

Italy: 800-789-767, +(39)-0245557031

Latvia: +(371)-66165504 Netherlands: +(31)-858880596 Norway: +(47)-21930678

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

Poland: +(48)-223988029 Portugal: +(351)-308801773

Spain: 900-868538, +(34)-931768545

Sweden: +(46)-852503403

United Kingdom (UK): +(44)-870-8200418

## SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

**Product definition**: Mixture

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

Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown

toxicity

2.7 percent of the mixture consists of component(s) of unknown acute oral toxicity
 2.7 percent of the mixture consists of component(s) of unknown acute dermal

toxicity

2.7 percent of the mixture consists of component(s) of unknown acute inhalation

toxicity

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

Hazard pictograms



Signal word : Warning

**Hazard statements** : H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

P103 - Read carefully and follow all instructions.

P102 - Keep out of reach of children.

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

**Prevention**: P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

**Response** : P362 + P364 - Take off contaminated clothing and wash it before reuse.

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Storage : Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Ingredients identification

information

: Polysulfides, di-tert-Bu and Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines,

C12-14-alkyl (branched)

Supplemental label

elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

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## **SECTION 2: Hazards identification**

**Special packaging requirements** 

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

# SECTION 3: Composition/information on ingredients

## 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Polysulfides, di-tert-Bu	CAS: 68937-96-2	≤3	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
Reaction products of bis (4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	CAS: 931-384-6EC	<1	Acute Tox. 4, H312 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	ATE [Dermal] = 1100 mg/kg	[1]
C16-18-(even numbered, saturated and unsaturated)-alkylamines	CAS: 1213789-63-9	<1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (dermal) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydrogen peroxide and tert- nonanethiol	EC: 293-927-7 CAS: 91648-65-6	≤0.3	Acute Tox. 4, H312 Acute Tox. 3, H331 Aquatic Chronic 3, H412  See Section 16 for the full text of the H statements declared above.	ATE [Dermal] = 2000 mg/kg ATE [Inhalation (vapours)] = 2.75 mg/l	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

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## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Inhalation
 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 If not breathing, if breathing is irregular or if respiratory arrest occurs, provide

artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the

event of any complaints or symptoms, avoid further exposure. Wash clothing before

reuse. Clean shoes thoroughly before reuse.

**Ingestion**: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear

gloves.

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

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

## 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing : [

media

: Do not use water jet.

## 5.2 Special hazards arising from the substance or mixture

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## **SECTION 5: Firefighting measures**

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

carbon monoxide

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** 

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

## 6.3 Methods and material for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

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## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

## **SECTION 8: Exposure controls/personal protection**

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

## **Biological exposure indices**

No exposure indices known.

## Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

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## **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Type	Exposure	Value	Population	Effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines	DNEL	Long term Inhalation	0.035 mg/ m³	General population	Systemic
, ,	DNEL	Long term Oral	40 μg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.38 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m³	Workers	Local

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Recommended: EN = European Standard (Norm) 166.

# Skin protection Hand protection

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
  - > 8 hours (breakthrough time): Wear suitable gloves tested to EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. Recommended: nitrile rubber,0.55 mm thickness

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: EN = European Standard (Norm) 340, EN = European Standard

(Norm) 369, EN = European Standard (Norm) 465.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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## **SECTION 8: Exposure controls/personal protection**

Recommended: No personal respiratory protective equipment normally required. In case of inadequate ventilation wear respiratory protection. Use a properly fitted, airpurifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. EN = European Standard (Norm)149.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

## 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.
Colour : Red.

Odour : Characteristic.

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and : Not available.

boiling range

Flammability : Not available.

Lower and upper explosion : Not available.

limit

Flash point : Open cup: 227°C (440.6°F) [Cleveland]

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

pH : Not available.

Viscosity : Kinematic (40°C): 126.7 mm<sup>2</sup>/s

Solubility(ies) : Media Res

: Media Result

cold water Not soluble Not soluble

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : Vapour Pressure at 20°C Vapour pressure at 50°C

	Vapour Pressure at 20 C		vapour pressure at 50 C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
pristillates (petroleum), solvent-dewaxed heavy paraffinic	<0.07501	<0.01	ASTM D 5191			

**Evaporation rate** : Not available.

Relative density : 0.89

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

Pour point : -33°C

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## **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydrogen peroxide and tert- nonanethiol	LC50 Inhalation Vapour	Rat	2.75 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	2000 mg/kg 10000 mg/kg	-

Conclusion/Summary : Not available.

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Gear Saver Hypoid Gear Oil 80W-90 Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	N/A N/A	N/A 1100	N/A N/A	1465.4 N/A	N/A N/A
C16-18-(even numbered, saturated and unsaturated)-alkylamines 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	10000	N/A 2000	N/A N/A	N/A 2.75	N/A N/A

## **Irritation/Corrosion**

**Conclusion/Summary**: Not available.

**Sensitisation** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

Conclusion/Summary : Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

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## SECTION 11: Toxicological information

Conclusion/Summary : Not available. Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Category 3	-	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Category 2	dermal	-

### **Aspiration hazard**

Product/ingredient name	Result
C16-18-(even numbered, saturated and unsaturated)-alkylamines	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available.

of exposure

Potential acute health effects

**Eye contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data. Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

**Potential immediate** 

: Not available.

effects

**Potential delayed effects** : Not available.

**Long term exposure** 

**Potential immediate** : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards.

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## **SECTION 11: Toxicological information**

## 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Polysulfides, di-tert-Bu	EC50 >100 mg/l	Algae	3 days
	EC50 63 mg/l	Daphnia	2 days
Reaction products of bis	EC50 6.4 mg/l	Algae	4 days
(4-methylpentan-2-yl)			
dithiophosphoric acid with			
phosphorus oxide,			
propylene oxide and amines,			
C12-14-alkyl (branched)			
	EC50 91.4 mg/l	Daphnia	2 days
	LC50 8.5 mg/l	Fish	4 days
	NOEC 1.7 mg/l	Algae	4 days
	NOEC 0.12 mg/l	Daphnia	21 days
	NOEC 3.2 mg/l	Fish	4 days
C16-18-(even numbered, saturated and unsaturated)-alkylamines	EC50 >0.13 mg/l	Algae	3 days
antylaminos	LC50 1.3 mg/l	Fish	4 days
	NOEC 0.013 mg/l	Daphnia	21 days
1,3,4-Thiadiazolidine-	EC50 >100 mg/l	Algae	3 days
2,5-dithione, reaction		1.9	,-
products with hydrogen			
peroxide and tert-			
nonanethiol			
	LC50 >1000 mg/l	Fish	4 days
	NOEC 100 mg/l	Algae	3 days
	NOEC 1000 mg/l	Fish	4 days

Conclusion/Summary

: Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Polysulfides, di-tert-Bu	OECD 301B Ready Biodegradability - CO2 Evolution Test	13 % - Not readily - 28 days	-	-
Reaction products of bis (4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	OECD 301B Ready Biodegradability - CO2 Evolution	7.4 % - 28 days	-	-
C16-18-(even numbered, saturated and unsaturated)-alkylamines	OECD 301B Ready Biodegradability - CO2 Evolution Test	66 % - 28 days	-	-
	OECD 2 301D Ready	44 % - 28 days	-	-

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## **SECTION 12: Ecological information**

Biodegradability - Closed Bottle Test 1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydrogen peroxide and tert- nonanethiol Biodegradability - OECD 301D Ready Biodegradability - Closed Bottle Test	2 % - 28 days	-	-
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**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Polysulfides, di-tert-Bu	-	-	Not readily
Reaction products of bis	-	-	Not readily
(4-methylpentan-2-yl)			
dithiophosphoric acid with			
phosphorus oxide,			
propylene oxide and amines,			
C12-14-alkyl (branched)			
C16-18-(even numbered,	-	-	Inherent
saturated and unsaturated)-			
alkylamines 1,3,4-Thiadiazolidine-			Not readily
2,5-dithione, reaction	-		INOL TEAUTY
products with hydrogen			
peroxide and tert-			
nonanethiol			

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
C16-18-(even numbered, saturated and unsaturated)-alkylamines	4.33	-	High

## 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Endocrine disrupting properties

Not available.

**Mobility** 

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 13.1 Waste treatment methods

**Product** 

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## **SECTION 13: Disposal considerations**

**Methods of disposal** 

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: The classification of the product may meet the criteria for a hazardous waste.

**Packaging** 

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

<sup>- :</sup> Not applicable.

## **Additional information**

ADR/RID : -

**ADN** : The product is only regulated as a dangerous good when transported in tank

vessels.

IMDG : -

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

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## **SECTION 15: Regulatory information**

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

## EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous

substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
Gear Saver Hypoid Gear Oil 80W-90	≥90	3

Labelling : Not applicable.

**Other EU regulations** 

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

National regulations

Storage class (TRGS 510) : 10 Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water : 2

Registration number (UBA): Not available.

**Technical instruction on**: TA-Luft Number 5.2.5: 62.7-64.8%

air quality control TA-Luft Class I - Number 5.2.5: 36.2-36.4%

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

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## **SECTION 15: Regulatory information**

Eurasian Economic Union: Russian Federation inventory: Not determined.

New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.

Thailand : Not determined.
Turkey : Not determined.

United States : MI components are active or exempted.

Viet Nam : Not determined.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

COC - Commention Crown

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
Skin Sens. 1, H317	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

### Full text of abbreviated H statements

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated
	exposure.
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.

## Full text of classifications [CLP/GHS]

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## **SECTION 16: Other information**

Acute Tox. 3 **ACUTE TOXICITY - Category 3** Acute Tox. 4 **ACUTE TOXICITY - Category 4** SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Acute 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1B SKIN SENSITISATION - Category 1B STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED **EXPOSURE - Category 2** SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -STOT SE 3 Category 3

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revision

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## **Notice to reader**

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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