


MATERIAL SAFETY DATA SHEET (REACH)


In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010


Revision: 28/02/2014

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	SLICK 50 ENGINE TREATMENT Code: 61399750, 61399500, 61322500	
Version: 4 Revision: 28/02/2014		Previous revision: 14/01/2014
Date of printing: 28/02/2014		
SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	PRODUCT IDENTIFIER: SLICK 50 ENGINE TREATMENT Code: 61399750, 61399500, 61322500	
1.2	RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST: <u>Intended uses (main technical functions):</u> [] Industrial [X] Professional [X] Consumers <u>Uses advised against:</u> # Engine additive. # None. As there is not classified as dangerous, this product can be used in ways other than the identified uses, but all uses have to be consistent with the safety guidelines provided. <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.	
1.3	DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: Kraco Car Care International Ltd. Grosvenor House, 20 Barrington Road, Altrincham, Cheshire WA14 1HB, U.K. Phone: +44 (0)161-927-7000 <u>E-mail address of the person responsible for the safety data sheet:</u> KCCI-orders@kraco.com	
1.4	EMERGENCY TELEPHONE NUMBER: +32 3 575 11 30	
SECTION 2 : HAZARDS IDENTIFICATION		
2.1	CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: This product is not classified as dangerous. in accordance with Regulation (EC) No. 1272/2008 (CLP) and in accordance with Directive 1999/45/EC~2006/8/EC	
2.2	LABEL ELEMENTS: This product does not require pictograms, in accordance with Regulation (EC) No. 1272/2008 (CLP) <u>Hazard statements:</u> None. <u>Precautionary statements:</u> P102 Keep out of reach of children. P501a Dispose of contents/container in a safe way. <u>Supplementary statements:</u> None. <u>Hazardous ingredients:</u> None.	
2.3	OTHER HAZARDS: Hazards which do not result in classification but which may contribute to the overall hazards of the mixture: <u>Other physicochemical hazards:</u> # No other relevant adverse effects are known. <u>Other adverse human health effects:</u> # No other relevant adverse effects are known. <u>Other negative environmental effects:</u> Does not contain substances that fulfil the PBT criteria.	

<div><div>KRACO</div><div>SLICK 50 ENGINE TREATMENT</div><div>Code: 61399750, 61399500, 61322500</div></div>																	
SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS																	
3.1	<div>SUBSTANCES:</div> <div>Not applicable (mixture).</div>																
3.2	<div>MIXTURES:</div> <div>This product is a mixture.</div> <div>Chemical description:</div> <div>Blend of lubricants fluid and additives.</div> <div>Hazardous ingredients:</div> <div>Substances taking part in a percentage higher than the exemption limit:</div> <div><div><div><div><div></div><div></div><div></div></div><div>< 0,5 %</div></div><div>Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)</div><div>CAS: 2215-35-2 , EC: 218-679-9</div><div>DSD: Xi:R38-R41 N:R51-53</div><div>CLP: Skin Irrit. 2:H315 Eye Dam. 1:H318 Aquatic Chronic 2:H411</div></div><div><div><div><div></div><div></div><div></div></div><div>< 0,20 %</div></div><div>Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts</div><div>CAS: 84605-29-8 , EC: 283-392-8</div><div>DSD: Xi:R38-R41 N:R51-53</div><div>CLP: Skin Irrit. 2:H315 Eye Dam. 1:H318 Aquatic Chronic 2:H411</div></div><div>Autoclassified</div><div>< REACH</div><div>< REACH</div></div> <div><div>Impurities:</div><div># Does not contain other components of impurities which will influence the classification of the product.</div></div> <div><div>Reference to other sections:</div><div>For more information, see sections 8, 11, 12 and 16.</div></div> <div><div>SUBSTANCES OF VERY HIGH CONCERN (SVHC):</div><div>List updated by ECHA on 16/12/2013.</div><div>Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:</div><div>None</div><div>Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:</div><div>None</div></div>																
SECTION 4 : FIRST AID MEASURES																	
4.1 4.2	<div>DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:</div> <div><div><div></div></div><div># Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.</div></div> <table><tr><td>Route of exposure</td><td>Symptoms and effects, acute and delayed</td><td>Description of first-aid measures</td></tr><tr><td>Inhalation:</td><td># Normally does not produce symptoms.</td><td>Should there be any symptoms, transfer the person affected to the open air.</td></tr><tr><td>Skin:</td><td># Normally does not produce symptoms.</td><td>Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.</td></tr><tr><td>Eyes:</td><td># Normally does not produce symptoms.</td><td>Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. Remove contact lenses. If irritation persists, consult a physician.</td></tr><tr><td>Ingestion:</td><td># If swallowed in high doses, may cause gastrointestinal disturbances.</td><td>If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.</td></tr></table>		Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures	Inhalation:	# Normally does not produce symptoms.	Should there be any symptoms, transfer the person affected to the open air.	Skin:	# Normally does not produce symptoms.	Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.	Eyes:	# Normally does not produce symptoms.	Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. Remove contact lenses. If irritation persists, consult a physician.	Ingestion:	# If swallowed in high doses, may cause gastrointestinal disturbances.	If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.
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4.3	<div>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:</div> <div>Notes to physician: # Treatment should be directed at the control of symptoms and the clinical condition of the patient.</div> <div>Antidotes and contraindications: Not available.</div>																

	SLICK 50 ENGINE TREATMENT Code: 61399750, 61399500, 61322500	
SECTION 5 : FIRE-FIGHTING MEASURES		
5.1	<u>EXTINGUISHING MEDIA:</u> # Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist.	
5.2	<u>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:</u> # Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.	
5.3	<u>ADVICE FOR FIREFIGHTERS:</u> <u>Special protective equipment:</u> Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents. <u>Other recommendations:</u> Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.	
SECTION 6 : ACCIDENTAL RELEASE MEASURES		
6.1	<u>PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:</u> # Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product.	
6.2	<u>ENVIRONMENTAL PRECAUTIONS:</u> Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.	
6.3	<u>METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:</u> # Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc.). Clean preferably with a biodegradable detergent. Keep the remains in a closed container.	
6.4	<u>REFERENCE TO OTHER SECTIONS:</u> For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.	
SECTION 7 : HANDLING AND STORAGE		
7.1	<u>PRECAUTIONS FOR SAFE HANDLING:</u> Comply with the existing legislation on health and safety at work. <u>General recommendations:</u> # Avoid any type of leakage or escape. Keep the container tightly closed. <u>Recommendations for the prevention of fire and explosion risks:</u> # Although due its low flammability does not represent a serious risk of fire, all type of measures should be taken in order to avoid any possibility of ignition. - Flash point : # 220. °C <u>Recommendations for the prevention of toxicological risks:</u> Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8. <u>Recommendations for the prevention of environmental contamination:</u> # It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.	
7.2	<u>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:</u> # Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10. <u>Class of store</u> : # According to current legislation. <u>Maximum storage period</u> : 5. years <u>Temperature interval</u> : min: 5. °C, max: 40. °C <u>Incompatible materials:</u> Keep away from oxidizing agents. <u>Type of packaging:</u> According to current legislation. <u>Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:</u> Not applicable.	
7.3	<u>SPECIFIC END USES:</u> For the use of this product do not exist particular recommendations apart from that already indicated.	

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION								
8.1	CONTROL PARAMETERS: If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689 standard concerning methods for assessing the exposure by inhalation to chemical agents and national guidance documents for methods for the determination of dangerous substances.							
	OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV) AGCIH-2011: Not established.							
	BIOLOGICAL LIMIT VALUES: Not available							
	DERIVED NO-EFFECT LEVEL (DNEL): Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.							
	Derived no-effect level, workers: - Systemic effects, acute and chronic: Not available (without data of registration REACH).	<table border="1"> <thead> <tr> <th>DNEL Inhalation mg/m3</th><th>DNEL Cutaneous mg/kg bw/d</th><th>DNEL Oral mg/kg bw/d</th></tr> </thead> <tbody> <tr> <td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	DNEL Inhalation mg/m3	DNEL Cutaneous mg/kg bw/d	DNEL Oral mg/kg bw/d	-	-	-
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PREDICTED NO-EFFECT CONCENTRATION (PNEC):								
	Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermitent release: Not available (without data of registration REACH).	<table border="1"> <thead> <tr> <th>PNEC Fresh water mg/l</th><th>PNEC Marine mg/l</th><th>PNEC Intermittent mg/l</th></tr> </thead> <tbody> <tr> <td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	PNEC Fresh water mg/l	PNEC Marine mg/l	PNEC Intermittent mg/l	-	-	-
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-	-	-						
	- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Not available (without data of registration REACH).	<table border="1"> <thead> <tr> <th>PNEC STP mg/l</th><th>PNEC Sediments mg/kg dry weight</th><th>PNEC Sediments mg/kg dry weight</th></tr> </thead> <tbody> <tr> <td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	PNEC STP mg/l	PNEC Sediments mg/kg dry weight	PNEC Sediments mg/kg dry weight	-	-	-
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	Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans: Not available (without data of registration REACH).	<table border="1"> <thead> <tr> <th>PNEC Air mg/m3</th><th>PNEC Soil mg/kg dry weight</th><th>PNEC Oral mg/kg bw/d</th></tr> </thead> <tbody> <tr> <td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	PNEC Air mg/m3	PNEC Soil mg/kg dry weight	PNEC Oral mg/kg bw/d	-	-	-
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8.2	<div><div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div></div><div><div>Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.</div></div></div><div><div><div>Protection of respiratory system:</div><div>Protection of eyes and face: <i># It is recommended to dispose of water taps or sources with clean water close to the working area.</i></div><div>Protection of hands and skin: It is recommended to dispose of water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.</div></div><div><div>OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:</div><div>As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding EC marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc.), you should consult the informative brochures provided by the manufacturers of PPE.</div></div></div><table><tr><td>Mask:</td><td>No.</td></tr><tr><td><div><div>Goggles:</div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div></div></div></td><td><i># Safety goggles with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.</i></td></tr><tr><td>Face shield:</td><td>No.</td></tr><tr><td><div><div>Gloves:</div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div></div></div></td><td><i># Gloves resistant against chemicals (EN374). When it can be a repeated or prolonged contact, it is recommended to use gloves with a protection level 5 or higher, with a breakthrough time >240 min. When you only expects a short contact, it is recommended to use gloves with a protection level 2 or higher, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted.</i></td></tr><tr><td>Boots:</td><td>No.</td></tr><tr><td>Apron:</td><td>No.</td></tr><tr><td>Clothing:</td><td><i># No.</i></td></tr></table><div><div>Thermal hazards:</div><div>Not applicable.</div><div><div>ENVIRONMENTAL EXPOSURE CONTROLS:</div><div><i># Avoid any spillage in the environment.</i></div><div>Spills on the soil: Prevent contamination of soil.</div><div>Spills in water: <i># Do not allow to escape into drains, sewers or water courses.</i></div><div>Emissions to the atmosphere: <i># Not applicable.</i></div></div></div></div>	Mask:	No.	<div><div>Goggles:</div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div></div></div>	<i># Safety goggles with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.</i>	Face shield:	No.	<div><div>Gloves:</div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div></div></div>	<i># Gloves resistant against chemicals (EN374). When it can be a repeated or prolonged contact, it is recommended to use gloves with a protection level 5 or higher, with a breakthrough time >240 min. When you only expects a short contact, it is recommended to use gloves with a protection level 2 or higher, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted.</i>	Boots:	No.	Apron:	No.	Clothing:	<i># No.</i>
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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES				
9.1	<p>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</p> <p><u>Appearance</u></p> <p>- Physical state : Liquid.</p> <p>- Colour : # <i>Amber</i>.</p> <p>- Odour : Characteristic</p> <p>- Odour threshold : Not available (mixture).</p> <p><u>pH-value</u></p> <p>- pH : Not applicable</p> <p><u>Change of state</u></p> <p>- Melting point : Not applicable</p> <p>- Initial boiling point : Not applicable</p> <p><u>Density</u></p> <p>- Relative density : # 0.88 at 20/4°C Relative water</p> <p><u>Stability</u></p> <p>- Decomposition temperature : Not applicable</p> <p><u>Viscosity:</u></p> <p>- Viscosity (flow time) : Not applicable</p> <p><u>Volatility:</u></p> <p>- Vapour pressure : # <i>Not applicable</i></p> <p><u>Solubility(ies)</u></p> <p>- Solubility in water: : Not miscible</p> <p>- Solubility in oils and fats: : Not available</p> <p><u>Flammability:</u></p> <p>- Flash point : # 220. °C</p> <p>- Autoignition temperature : Not applicable</p> <p><u>Explosive properties:</u></p> <p>Not available.</p> <p><u>Oxidizing properties:</u></p> <p>Not available.</p>			
9.2	<p><u>OTHER INFORMATION:</u></p> <p>The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.</p>			
SECTION 10 : STABILITY AND REACTIVITY				
10.1	<p><u>REACTIVITY:</u></p> <p>Not available.</p> <p><u>Corrosivity to metals:</u> It is not corrosive to metals.</p> <p><u>Pyrophorical properties:</u> It is not pyrophoric.</p>			
10.2	<p><u>CHEMICAL STABILITY:</u></p> <p>Stable under recommended storage and handling conditions.</p>			
10.3	<p><u>POSSIBILITY OF HAZARDOUS REACTIONS:</u></p> <p>Possible dangerous reaction with oxidizing agents, acids.</p>			
10.4	<p><u>CONDITIONS TO AVOID:</u></p> <p><u>Heat:</u> # <i>Keep away from sources of heat.</i></p> <p><u>Light:</u> If possible, avoid direct contact with sunlight.</p> <p><u>Air:</u> Not applicable.</p> <p><u>Humidity:</u> Avoid extreme humidity conditions.</p> <p><u>Pressure:</u> Not applicable.</p> <p><u>Shock:</u> Not applicable.</p>			
10.5	<p><u>INCOMPATIBLE MATERIALS:</u></p> <p>Keep away from oxidizing agents.</p>			
10.6	<p><u>HAZARDOUS DECOMPOSITION PRODUCTS:</u></p> <p># <i>As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.</i></p>			

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SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations for individual ingredients :	DL50 (OECD 401) mg/kg oral	DL50 (OECD 402) mg/kg cutaneous	CL50 (OECD 403) mg/m3.4h inhalation
Zn/tetra(1,3-dimethylbutyl)bis(dithiophosphate) Zinc O,O-bis(dimethylbutyl/iso-Pr)dithiophosphate	2230. Rat 3100. Rat	25000. Rabbit 3200. Rabbit	> 2300. Rat > 2300. Rat

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed
<u>Inhalation:</u> Not classified	ETA > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).
<u>Skin:</u> Not classified	ETA > 2000 mg/kg	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).
<u>Ingestion:</u> Not classified	ETA > 5000 mg/kg	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).
<u>Skin corrosion/irritation:</u> Not classified	-	-	# Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).
<u>Serious eye damage/irritation:</u> Not classified	-	-	# Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).
<u>Respiratory sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).
<u>Skin sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Aspiration hazard:</u> Not classified	-	-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Effects	SE/RE	Target organs	Cat.	Main effects, acute and/or delayed
<u>Systemic:</u>	-			Not available.

CMR EFFECTS:

Carcinogenic effects: Is not considered as a carcinogenic product.

Genotoxicity: Is not considered as a mutagenic product.

Toxicity for reproduction: Do not harm fertility. Do not harm the fetus developing.

Effects via lactation: Not classified as a hazardous product for children breast-fed.

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DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: # Not available.

Short-term exposure: # Not available.

Long-term or repeated exposure: # Not available.

ADDITIONAL INFORMATION:

Not available.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008 (CLP).

12.1 TOXICITY:**Acute toxicity in aquatic environment for individual ingredients :**

Zn/tetra(1,3-dimethylbutyl)bis(dithiophosphate)
Zinc O,O-bis(dimethylbutyl/iso-Pr)dithiophosphate

CL50 (OECD 203)
mg/l.96hours

46. Fishes
4.5 Fishes

CE50 (OECD 202)
mg/l.48hours

23. Daphnia
23. Daphnia

CE50 (OECD 201)
mg/l.72hours

21. Algae
21. Algae

No observed effect concentration

Not available

Lowest observed effect concentration

Not available

12.2 PERSISTENCE AND DEGRADABILITY:

Not available.

12.3 BIOACCUMULATIVE POTENTIAL:

Not available.

12.4 MOBILITY IN SOIL:

Not available.

12.5 RESULTS OF PBT AND MPMB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:

Not applicable.

12.6 OTHER ADVERSE EFFECTS:

Ozone depletion potential: Not available.

Photochemical ozone creation potential: Not available.

Earth global warming potential: # In case of fire or incineration liberates CO₂.

Endocrine disrupting potential: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS**13.1 WASTE TREATMENT METHODS:** Directive 2008/98/EC:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC:

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:


Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.


MATERIAL SAFETY DATA SHEET (REACH)

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010

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SECTION 14 : TRANSPORT INFORMATION		
14.1	<u>UN NUMBER:</u> Not applicable	
14.2	<u>UN PROPER SHIPPING NAME:</u> Not applicable	
14.3 14.4	<u>TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:</u> <u>Transport by road (ADR 2013) and</u> <u>Transport by rail (RID 2013):</u> Not regulated <u>Transport by sea (IMDG 35-10):</u> Not regulated <u>Transport by air (ICAO/IATA 2012):</u> Not regulated <u>Transport by inland waterways (ADN):</u> # Free.	
14.5	<u>ENVIRONMENTAL HAZARDS:</u> # Not applicable (not classified as hazardous for the environment).	
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> # Not applicable.	
14.7	<u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> # Not applicable.	
SECTION 15 : REGULATORY INFORMATION		
15.1	<u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> The regulations applicable to this product generally are listed throughout this material safety data sheet. <u>Restrictions on manufacture, placing on market and use:</u> See section 1.2 <u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2 <u>Tactile warning of danger:</u> Not applicable <u>Child safety protection:</u> Not applicable <u>OTHER REGULATIONS:</u> Not available	
15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> Not applicable (mixture).	

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SECTION 16 : OTHER INFORMATION		
16.1	<p>TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3: <u>Hazard statements according the Regulation (EC) No. 1272/2008 (CLP), Annex III:</u> H315 Causes skin irritation. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects. <u>R-phrases according the Directive 67/548/EEC~2001/59/EC (DSD), Annex III:</u> R38 Irritating to skin. R41 Risk of serious damage to eyes. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p><u>ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:</u> It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of material safety data sheets and labelling of products as well.</p> <p><u>MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:</u></p> <ul style="list-style-type: none"> · European Chemicals Agency: ECHA, http://echa.europa.eu/ · Access to European Union Law, http://eur-lex.europa.eu/ · European Chemicals Bureau: Existing Chemicals, http://esis.jrc.ec.europa.eu/ <p><u>ABBREVIATIONS AND ACRONYMS:</u> List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:</p> <ul style="list-style-type: none"> · REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals. · DSD: Dangerous Substances Directive. · DPD: Dangerous Preparations Directive. · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations. · CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures. · 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). · UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials). · SVHC: Substances of Very High Concern. · PBT: Persistent, bioaccumulable and toxic substances. · vPvB: Very persistent and very bioaccumulable substances. · VOC: Volatile Organic Compounds. · DNEL: Derived No-Effect Level (REACH). · PNEC: Predicted No-Effect Concentration (REACH). · LD50: Letal dose, 50 percent. · LC50: Letal concentration, 50 percent. · UN: United Nations Organisation. · ADR: European agreement concerning the international carriage of dangerous goods by road. · RID: Regulations concerning the international transport of dangerous goods by rail. · IMDG: International Maritime code for Dangerous Goods. · IATA: International Air Transport Association. · ICAO: International Civil Aviation Organization. <p><u>MATERIAL SAFETY DATA SHEET REGULATIONS:</u> Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.</p> <p><u>HISTORY:</u> <u>Revision:</u> Version: 3 14/01/2014 Version: 4 28/02/2014</p> <p><u>Modifications with respect to the previous Material Safety Data Sheet:</u> <i># The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.</i></p>	

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.