

## **RS** Components

Chemwatch Hazard Alert Code: 2 Chemwatch: 5268-24 Issue Date: 10/12/2021 Version No: 4.1 Print Date: 08/03/2023 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements L.GHS.AUS.EN.E

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

## Product Identifier

Product name	LGEP 2 #134-7588 #134-7589
Chemical Name	Not Applicable
Synonyms	Product Code: 134-7588, 134-7589
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Lubricating grease. Use according to manufacturer's directions.
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#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	RS Components
Address	25 Pavesi Street Smithfield NSW 2164 Australia
Telephone	+1 300 656 636
Fax	+1 300 656 696
Website	www.au.rs-online.com
Email	Not Available

#### Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	+61 1800 951 288
Other emergency telephone numbers	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

#### Chemwatch Hazard Ratings

	Min	Max	
Flammability	1		
Toxicity	0		0 = Minimum
Body Contact	2	1	1 = Low
Reactivity	1		2 = Moderate
Chronic	0		3 = High 4 = Extreme

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 3
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Hazard pictogram(s)		
Signal word	Danger	
Hazard statement(s)		
H318	Causes serious eye darr	nage.
H412	Harmful to aquatic life wi	ith long lasting effects.
Precautionary statement(s) Pre	evention	
P280	Wear protective gloves,	protective clothing, eye protection and face protection.
P273	Avoid release to the envi	ironment.
Precautionary statement(s) Res	sponse	
P305+P351+P338	IF IN EYES: Rinse caution	ously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	
Not Applicable	-	
Not Applicable Precautionary statement(s) Dis	sposal	
Not Applicable	sposal	tainer to authorised hazardous or special waste collection point in accordance with any local regulation.
Not Applicable Precautionary statement(s) Dis P501	sposal Dispose of contents/cont	
Precautionary statement(s) Sto Not Applicable Precautionary statement(s) Dis P501 SECTION 3 Composition / in Substances See section below for composition of	posal Dispose of contents/cont formation on ingree	
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## Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin or hair contact occurs: ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

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

Treat symptomatically.

## **SECTION 5 Firefighting measures**

#### Extinguishing media

- Dry chemical powder.
- BCF (where regulations permit). Carbon dioxide.

Do not use a water jet to fight fire.

## Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit corrosive fumes.</li> </ul>
HAZCHEM	Not Applicable

## SECTION 6 Accidental release measures

# Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> <li>Place spilled material in clean, dry, sealed container.</li> <li>Flush spill area with water.</li> </ul>
Major Spills	<ul> <li>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment as required.</li> <li>Prevent spillage from entering drains or water ways.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.</li> <li>Wash area and prevent runoff into drains or waterways.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

## Conditions for safe storage, including any incompatibilities

	▶ Metal can or drum
Suitable container	Packaging as recommended by manufacturer.
	Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid reaction with oxidising agents

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

#### **Control parameters**

Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Not Available

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
LGEP 2 #134-7588 #134-7589	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate	Not Available		Not Available	
Occupational Exposure Banding				

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate	E	≤ 0.01 mg/m³
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	

#### MATERIAL DATA

#### Exposure controls

	Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be i The basic types of engineering controls are: Process controls which involve changing the way a job activil Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilatior ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev General exhaust is adequate under normal operating condition overexposure exists, wear approved respirator. Correct fit is or closed storage areas. Air contaminants generated in the w velocities" of fresh circulating air required to effectively remov	independent of worker interactions to provide this high level ty or process is done to reduce the risk. selected hazard "physically" away from the worker and ven n can remove or dilute an air contaminant if designed proper emical or contaminant in use. vent employee overexposure. ons. Local exhaust ventilation may be required in specific cin essential to obtain adequate protection. Provide adequate v vorkplace possess varying "escape" velocities which, in turn	of protection. tilation that strategically dy. The design of a counstances. If risk of entilation in warehouse
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (ii	n still air).	0.25-0.5 m/s (50-100 f/min)
priate engineering	aerosols, fumes from pouring operations, intermittent conta drift, plating acid fumes, pickling (released at low velocity ir		0.5-1 m/s (100-200 f/min.)
controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active 1-2.5 m/s (200-50 generation into zone of rapid air motion) f/min.)		
	5 5, 5 5, 5 1, 5 5, 5 1, 5 5, 5 1, 5 5, 5 1, 5 5, 5 1, 5 5, 5 1, 5 5, 5 1, 5 5, 5 1, 5 5, 5 1, 5		2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
	Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simpl accordingly, after reference to distance from the contaminatir 1-2 m/s (200-400 f/min) for extraction of solvents generated i producing performance deficits within the extraction apparatu more when extraction systems are installed or used.	le cases). Therefore the air speed at the extraction point sho ng source. The air velocity at the extraction fan, for example in a tank 2 meters distant from the extraction point. Other m	buld be adjusted, , should be a minimum of echanical considerations,



- Safety glasses with side shields.
- Chemical goggles.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in

Individual protection measures, such as personal protective equipment

	a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

## **SECTION 9** Physical and chemical properties

## Information on basic physical and chemical properties

Appearance	Yellowish brown paste/fat with a characteristic odour; does not mix with water.		
Physical state	Non Slump Paste	Relative density (Water = 1)	<1.0
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	>150	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 Toxicological information**

## Information on toxicological effects

Inhaled	Acute effects from inhalation of high vapour concentrations may be chest and nasal irritation with coughing, sneezing, headache and even nausea.		
Ingestion	Ingestion may result in nausea, abdominal irritation, pain and vomiting		
Skin Contact	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.		
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.		
	TOXICITY	IRRITATION	
LGEP 2 #134-7588 #134-7589	Dermal (None) LD50: 3289 mg/kg* <sup>[2]</sup>	Not Available	
	Oral (None) LD50: 5122 mg/kg* <sup>[2]</sup>		

	ΤΟΧΙΟΙΤΥ	IRRITATION	
zinc O,O-bis(2-ethylhexyl,	Dermal (rabbit) LD50: >20000 mg/kg <sup>[1]</sup>	Eye (human):SEV	ERE [Manufacturer]
iso-Bu, iso-Pr) dithiophosphate	Inhalation(Rat) LC50: >0.5 mg/l4h <sup>[1]</sup>	Eye: adverse effe	ct observed (irritating) <sup>[1]</sup>
	Oral (Rat) LD50: >2000 mg/kg <sup>[2]</sup>	Skin: adverse effe	ct observed (irritating) <sup>[1]</sup>
Legend:	1. Value obtained from Europe ECHA Registered Subst specified data extracted from RTECS - Register of Toxic	•	ed from manufacturer's SDS. Unless otherwise
ZINC O,O-BIS(2-ETHYLHEXYL, ISO-BU, ISO-PR) DITHIOPHOSPHATE	<ul> <li>* Lanxess</li> <li>The material may produce severe irritation to the eye caproduce conjunctivitis.</li> <li>For dithiophosphate alkyl esters and their (zinc) salts:</li> <li>Acute toxicity: Dithiophosphate alkyl esters consist of a are saturated hydrocarbon chains that vary in length am acute systemic toxicity. Data on acute mammalian toxici concern for acute toxicity. Commercial oil-based sample acute oral LD50 for these studies in rats ranged from 20 reduced food consumption, and staining about the nose incidence and severity of these symptoms were proportio observation week 2. Necropsy findings were few in num in some animals.</li> <li>Acute dermal toxicity and irritation studies using the esterminimal opportunity of human exposure to the chemical skin.</li> <li>Commercial oil-based samples of the zinc dialkyldithiopi for these studies in rabbits were greater than 2000 mg/kg 2000-8000 mg/kg. Dermal application of the test materia edema, which in some cases persisted through the 14-c consumption, weight loss, diarrhea, lethargy, ataxia, pto necropsy observations. Overall, the acute dermal LD50 lethal toxicity. Zinc dialkyldithiophosphates are high mol molecular weight limit for passive transport across biolo components will be absorbed for systemic distribution. It distribution in the mammalian system.</li> <li>The negligible vapor pressure and high viscosity at amb exposure under conditions of use</li> <li>Repeat dose toxicity: Data from several repeated-dose refined lubricant base oil has been reviewed. Repeated irritation, behavioral distress, body weight loss and ema organs. These effects were observed across several me vidence that the incremental increase in carbon chain 1 parameters.</li> <li>Oral administration caused significant gastric irritation at effects on male reproductive organs.</li> <li>Reproductive toxicity: An epidemiological study on wormanufacturing plant revealed no adverse effects on wor clinical and pathological findings in repeated-dos</li></ul>	a phosphorodithioic acid structure wit d extent of branching. While corrosive ity of zinc dialkyldithiophosphates in h es of the zinc dialkyldithiophosphates in h es of the zinc dialkyldithiophosphates in 000-3500 mg/kg. Clinical signs observ and eye. Ptosis, piloerection, ataxia ional to the dose. In many cases the di ober. Lung congestion, gastrointestinal er on experimental animals resulted in s in this category. Dithiophosphate all hosphate category have been tested (g (limit tests). No treatment-related m als to abraded skin for 24 hours typica lay observation period. Clinical signs issis, motor incoordination and/or loss for these substances were greater th ecular weight components (average > gical membranes. Thus, upon exposu n addition, these materials have a low bent temperature indicates that these e toxicity studies using commercial sa dermal exposure to experimental anii ciation, reduction in hematological pa embers of the category with carbon ch length or molecular weight could be c and related gastrointestinal disturbance orkers exposed to oil-based zinc dialk fixer reproductive health. Review of the ial toxicity studies with C4-10 zinc dia untoward findings in a human epidem le rabbits; these are attributed to the ise to the test materials. Changes in r o the skin at dose levels that cause sh ess, is thought to play a role in the rep es of zinc dialkyldithiophosphates in h ene mutation assays, in vitro mamma of reverse mutations in bacteria were r mmalian cells indicate that the zinc dia n, however, upon biotransformation, th proportion to the alkyl chain length ise to the alkyl chain length or uspatic microsome activation were inco- dies negative, 3 studies positive in the i) indicates that metabolic activation of	h alkyl ester substituent groups. The alkyl groups to tissue the esters demonstrate a low concern for ighly refined lubricant base oil also indicate a low ategory have been tested for acute oral toxicity. The effects were found to be reversible during l irritation and a reduction in body fat were observed. In severe dermal irritation and corrosivity. There is cyl esters exhibit extreme corrosive properties on for acute dermal toxicity. The acute dermal LD50s hortality was observed at doses ranging from ally produced moderate-to-severe erythema and included varying degrees of reduced food of righting reflex. There were no remarkable gross an 2000 mg/kg indicative of a relatively low order of 500 gm/mol), which generally accepted that the ire it is unlikely that significant amounts of these water solubility that further inhibits absorption and materials are unlikely to represent an inhalation imples of zinc dialkyldithiophosphates in highly mals resulted in moderate-to-severe dermal rameters and adverse effects on male reproductive ana lengths ranging from C4-8. There was no orrelated with significant changes in toxicity es, signs of distress but with no evidence of adverse stress associated with the severe dermal response in lengths ranging from C4-8) in an additive e available information underscores the similarity of kyldithiophosphates, as well as the absence of niological investigation. Reproductive organ effects stress associated with the severe dermal response in lesions. Thus, dermal irritation alone, or in productive organ response to repeated cutaneous highly refined lubricant base oil have a small lian gene mutation assays, or in vivo chromosoma not significantly changed after exposure to the zinc alkyldithiophosphates do not consistently display nese materials showed mutagenic activity. The r any other physicochemical parameter. onsistent, but in general indicating that zinc e absence of metabolic activation). However, the zinc dialkyldithiophosphates by induced hepatic
Aquita Tavisita	<b>v</b>	Cominganiaite	~
Acute Toxicity	X X	Carcinogenicity	×
Skin Irritation/Corrosion Serious Eye Damage/Irritation	× ×	Reproductivity STOT - Single Exposure	X
Respiratory or Skin			
sensitisation	×	STOT - Repeated Exposure	×

Source

LGEP 2 #134-7588 #134-7589

Toxicity

**SECTION 12 Ecological information** 

×

Mutagenicity

Species

Legend:

Aspiration Hazard

×

X − Data either not available or does not fill the criteria for classification
→ Data available to make classification

Value

	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	504h	Crustacea	0.4mg/l	2
zinc 0,0-bis(2-ethylhexyl,	EC50	96h	Algae or other aquatic plants	2mg/l	2
iso-Bu, iso-Pr)	EC50	72h	Algae or other aquatic plants	2mg/l	2
dithiophosphate	LC50	96h	Fish	5mg/l	Not Available
	EC50	48h	Crustacea	5.4mg/l	2
Legend:	Ecotox database	. IUCLID Toxicity Data 2. Europe ECHA Regist - Aquatic Toxicity Data 5. ECETOC Aquatic Ha n Data 8. Vendor Data			

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	
Bioaccumulative pote	ntial		
Ingredient	Bioaccumulation		
	No Data available for all ingredients		
Mobility in soil			
Ingredient	Mobility		
	No Data available for all ingredients		

#### **SECTION 13 Disposal considerations**

# Waste treatment methods Product / Packaging disposal • Recycle wherever possible or consult manufacturer for recycling options. • Consult State Land Waste Authority for disposal. • Bury or incinerate residue at an approved site. • Recycle containers if possible, or dispose of in an authorised landfill.

#### **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

## Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate	Not Available

#### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate	Not Available

## **SECTION 15 Regulatory information**

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

zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 4 Australian Inventory of Industrial Chemicals (AIIC) International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

#### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	No (zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate)		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate)		
Vietnam - NCI	No (zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate)		
Russia - FBEPH	No (zinc O,O-bis(2-ethylhexyl, iso-Bu, iso-Pr) dithiophosphate)		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

#### **SECTION 16 Other information**

Revision Date	10/12/2021
Initial Date	14/08/2017

#### SDS Version Summary

Version	Date of Update	Sections Updated
3.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
4.1	10/12/2021	Classification change due to full database hazard calculation/update.

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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