

Gulf Marine Pte. Ltd.

Chemwatch: **5612-24** Version No: **4.1** Safety Data Sheet in accordance with SS 586-3:2022 Issue Date: 20/06/2023 Print Date: 07/05/2025 S.GHS.SGP.EN.E

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

Product Identifier

Product name	GulfSea Power MX 15W-40
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	1DD51540-00

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

Relevant identified uses	Engine Oil
	Use according to manufacturer's directions.

Details of the manufacturer or importer of the safety data sheet

Registered company name	Gulf Marine Pte. Ltd.	
Address	7 Tuas Road 638503 Singapore	
Telephone	+65 6592 0120	
Fax	Not Available	
Website	Not Available	
Email	sds@gulf-marine.com	

Emergency telephone number

Association / Organisation	Gulf Marine Pte. Ltd.	
Emergency telephone number(s)	+65 6592 0120	
Other emergency telephone number(s)	Not Available	

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification	Serious Eye Damage/Eye Irritation Category 2	
Label elements		
Hazard pictogram(s)		
Signal word	Warning	
Hazard statement(s)		
H319	Causes serious eye irritation.	
Precautionary statement(s) Prevention		
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.	

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GulfSea Power MX 15W-40

Precautionary statement(s) Response

• • • • • • • • • • • • • • • • • • • •	·
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.	
Precautionary statement(s) Ste	brage

Precautionary statement(s) Disposal

Not Applicable

Other hazards

Cumulative effects may result following exposure*.

May produce discomfort of the eyes and skin*.

*LIMITED EVIDENCE

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	% [weight]	Name	Synonyms	Chemical formula
113706-15-3	1-10	zinc O.O-bis(sec-butyl & isooctyl)dithiophosphate	phosphorodithoic acid, mixed O,O-bis(sec-butyl and isooctyl) esters, zinc salts; zinc dialkyl dithiophosphorate	C24H52O4P2S4Zn C12-H27- O2-P-S2 .1/2 Zn
Not Available	balance	Ingredients determined not to be hazardous		Not Available

SECTION 4 First aid measures

Description of first aid measures If this product comes in contact with the eyes: Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the Eye Contact upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Skin Contact Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes, aerosols or combustion products are inhaled remove from contaminated area. Inhalation • Other measures are usually unnecessary. Immediately give a glass of water. Ingestion First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).Carbon dioxide.
- Water spray or fog Large fires only.

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	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers with water spray from a protected location. If safe to do so, remove containers from path of fire. 	
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. 	

carbor phospi sulfur other p	ustion products include: dioxide (CO2) norus oxides (POX) oxides (SOX) yrolysis products typical of burning organic material. nit poisonous fumes.
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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	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Hydrogen sulfide (H2S or Sour Gas) may be present when loading and unloading transport vessels. Stay upwind and away from newly opened hatches and allow to vent thoroughly before handling material. Steam may be used to vent hatches. Keep all sources of ignition away from loading area. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Attract allow containers with material to stay in contact with skin
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Sulfides are incompatible with acids, diazo and azo compounds, halocarbons, isocyanates, aldehydes, alkali metals, nitrides, hydrides, and other strong reducing agents. Many reactions of sulfides with these materials generate heat and in many cases hydrogen gas. Many sulfide compounds may liberate hydrogen sulfide upon reaction with an acid. Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Part Number: Version No: 4.1

Occupational Exposure Limits (OEL)

Issue Date.	
Print Date:	

INGREDIENT DATA Ingredient Material name TWA STEL Source Peak Notes Singapore Permissible Exposure Limits of Toxic zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate Nuisance particulates Not 10 Not Not Available Available Available mg/m3 Substances Original IDLH Revised IDLH Ingredient zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate Not Available Not Available

Exposure controls

kposure controis			
	Engineering controls are used to remove a hazard or place a can be highly effective in protecting workers and will typically The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a strategically "adds" and "removes" air in the work environmeu design of a ventilation system must match the particular proc Employers may need to use multiple types of controls to prev General exhaust is adequate under normal operating condition of overexposure exists, wear approved respirator. Correct fit warehouse or closed storage areas. Air contaminants general	be independent of worker interactions to provide this hig by or process is done to reduce the risk. selected hazard "physically" away from the worker and v nt. Ventilation can remove or dilute an air contaminant if of ess and chemical or contaminant in use. rent employee overexposure. Dns. Local exhaust ventilation may be required in specific is essential to obtain adequate protection. Provide adequ	h level of protection. rentilation that designed properly. The c circumstances. If risk late ventilation in
	determine the "capture velocities" of fresh circulating air requ		which, in turn,
	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)
	aerosols, fumes from pouring operations, intermittent conta spray drift, plating acid fumes, pickling (released at low vel		0.5-1 m/s (100- 200 f/min.)
Appropriate engineering controls	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)		1-2.5 m/s (200- 500 f/min.)
	grinding, abrasive blasting, tumbling, high speed wheel ger of very high rapid air motion).	nerated dusts (released at high initial velocity into zone	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 Simple theory shows that air velocity falls rapidly with distance	4: Small hood-local control only	
	decreases with the square of distance from the extraction po adjusted, accordingly, after reference to distance from the co a minimum of 1-2 m/s (200-400 f/min) for extraction of solver mechanical considerations, producing performance deficits w multiplied by factors of 10 or more when extraction systems a	ntaminating source. The air velocity at the extraction fan, its generated in a tank 2 meters distant from the extraction ithin the extraction apparatus, make it essential that theo	for example, should be on point. Other
Individual protection measures, such as personal protective equipment)	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national e Contact lenses may pose a special hazard; soft contact I describing the wearing of lenses or restrictions on use, si lens absorption and adsorption for the class of chemicals should be trained in their removal and suitable equipmen irrigation immediately and remove contact lens as soon a irritation - lens should be removed in a clean environmen Intelligence Bulletin 59]. 	enses may absorb and concentrate irritants. A written pol hould be created for each workplace or task. This should is in use and an account of injury experience. Medical and t should be readily available. In the event of chemical ex as practicable. Lens should be removed at the first signs	include a review of first-aid personnel posure, begin eye of eye redness or
Skin protection	See Hand protection below		
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of severa advance and has therefore to be checked prior to the applica The exact break through time for substances has to be obtain when making a final choice. Personal hygiene is a key element of effective hand care. Glk washed and dried thoroughly. Application of a non-perfumed Suitability and durability of glove type is dependent on usage frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN S When prolonged or frequently repeated contact may occur, 	I substances, the resistance of the glove material can notion. The from the manufacturer of the protective gloves and hoves must only be worn on clean hands. After using glove moisturiser is recommended. . Important factors in the selection of gloves include: 374, US F739, AS/NZS 2161.1 or national equivalent).	t be calculated in as to be observed es, hands should be
	240 minutes according to EN 374, AS/NZS 2161.10.1 or national with the only brief contact is expected, a glove with a protection EN 374, AS/NZS 2161.10.1 or national equivalent) is recommon second s	on class of 3 or higher (breakthrough time greater than 60	

· Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. · Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: · Excellent when breakthrough time > 480 min · Good when breakthrough time > 20 min Fair when breakthrough time < 20 min · Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: • Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. • Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. **Body protection** See Other protection below Overalls. P.V.C apron. Other protection Barrier cream. Skin cleansing cream. Eye wash unit.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

• Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

• Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Brown colored liquid; does not mix with water Brown		
Physical state	Liquid	Relative density (Water = 1)	0.8763 (15°C)
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)	15.2 (100°C)
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	236	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
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. 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

Mutagenicity

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Information on toxicological effects a) Acute Toxicity Based on available data, the classification criteria are not met. b) Skin Irritation/Corrosion Based on available data, the classification criteria are not met c) Serious Eye There is sufficient evidence to classify this material as eye damaging or irritating Damage/Irritation d) Respiratory or Skin Based on available data, the classification criteria are not met. sensitisation e) Mutagenicity Based on available data, the classification criteria are not met. f) Carcinogenicity Based on available data, the classification criteria are not met. g) Reproductivity Based on available data, the classification criteria are not met. h) STOT - Single Exposure Based on available data, the classification criteria are not met. i) STOT - Repeated Exposure Based on available data, the classification criteria are not met. j) Aspiration Hazard Based on available data, the classification criteria are not met. The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal Inhaled models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack Indestion of corroborating animal or human evidence Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Skin Contact Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Eye This material can cause eye irritation and damage in some persons. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational Chronic exposure TOXICITY IRRITATION GulfSea Power MX 15W-40 Not Available Not Available TOXICITY IRRITATION Eye: adverse effect observed (irritating)^[1] dermal (rat) LD50: >5000 mg/kg^[2] zinc O,O-bis(sec-butyl & isooctvl)dithiophosphate Inhalation (Rat) LC50: >0.5 mg/l4h^[1] Skin: adverse effect observed (irritating)^[1] Oral (Rat) LD50: >2000 mg/kg^[2] 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise Leaend: specified data extracted from RTECS - Register of Toxic Effect of chemical Substances No significant acute toxicological data identified in literature search. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. ZINC O,O-BIS(SEC-BUTYL & Dithiophosphate alkyl esters is corrosive and toxic to the tissues on skin or oral exposure depending on its concentration. Symptoms ISOOCTYL)DITHIOPHOSPHATE included diarrhoea, skin and gastrointestinal irritation, lethargy, reduced food intake, staining about the nose and eye; occasionally, there was drooping of the eyelid, hair standing up, inco-ordination and salivation. Toxicity is reduced following inhalation (due to vapour pressure and high viscosity). It may produce reproductive, developmental and genetic toxicity on experimental animals, but no substantive data is available to establish effect on humans. Acute Toxicity × Carcinogenicity × Skin Irritation/Corrosion × × Reproductivity Serious Eye -STOT - Single Exposure × Damage/Irritation **Respiratory or Skin** × × STOT - Repeated Exposure sensitisation

Legend: X – Data either not available or does not fill the criteria for classification

✔ – Data available to make classification

Aspiration Hazard

Version No: 4.1

Other information

Not Available

SECTION 12 Ecological information

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
GulfSea Power MX 15W-40	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	5.4mg/l	2
zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate	EC50	72h	Algae or other aquatic plants	2mg/l	2
	EC50	96h	Algae or other aquatic plants	2mg/l	2
	NOEC(ECx)	504h	Crustacea	0.4mg/l	2
	LC50	96h	Fish	46mg/l	2
Legend:	Ecotox databas		CHA Registered Substances - Ecotoxicological Informa Aquatic Hazard Assessment Data 6. NITE (Japan) - E		

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
zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate	HIGH	HIGH
Bioaccumulative potential		
Ingredient	Bioaccumulation	
zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate	LOW (LogKOW = 12.32)	
Mobility in soil		
Ingredient	Mobility	
zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate	LOW (Log KOC = 3509)	

Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in
their area. In some areas, certain wastes must be tracked.
A Hierarchy of Controls seems to be common - the user should investigate:
Reduction
▶ Reuse
▶ Recycling
Disposal (if all else fails)
This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been
contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be
applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be
appropriate.
DO NOT allow wash water from cleaning or process equipment to enter drains.
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
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

Land transport (UN): 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

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

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

Product name	Group
zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate	Not Available

SECTION 15 Regulatory information

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

zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS) Singapore Permissible Exposure Limits of Toxic Substances

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	No (zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate)
Vietnam - NCI	Yes
Russia - FBEPH	No (zinc O,O-bis(sec-butyl & isooctyl)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	20/06/2023
Initial Date	13/06/2023

Other information

Ingredients with multiple cas numbers

Name	CAS No
zinc O,O-bis(sec-butyl & isooctyl)dithiophosphate	113706-15-3, 93819-94-4, 134759-18-5

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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication and may be subject to modification from time to time. It is the user's responsibility to verify that this Safety Data Sheet is current prior to use or application. The information given is designed only as a guidance for safe handling, use, application, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.