

# Syn-Tech Ltd.

Version No: 1.1 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

## **SECTION 1 Identification**

### **Product Identifier**

Product name	NS-2609-G
Synonyms	Not Available
Other means of identification	Not Available

### Recommended use of the chemical and restrictions on use

Relevant identified uses Lubricant

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

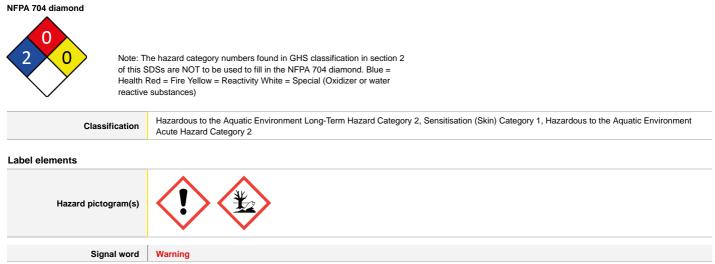
Registered company name	Syn-Tech Ltd.	Syn-Tech Ltd.
Address	1550 W Fullerton Ave, Unit F Illinois 60101 United States	1550 W. Fullerton Ave Illinois United States
Telephone	630-628-7290	630-628-7290
Fax	Not Available	Not Available
Website	www.syn-techlube.com	www.syn-techlube.com
Email	msds@syn-techlube.com	msds@syn-techlube.com

### Emergency phone number

• • •	
Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

### SECTION 2 Hazard(s) identification

# Classification of the substance or mixture



Chemwatch Hazard Alert Code: 2

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### Hazard statement(s)

H411	Toxic to aquatic life with long lasting effects.	
H317	May cause an allergic skin reaction.	

### Hazard(s) not otherwise classified

Not Applicable

### Precautionary statement(s) Prevention

P280	Wear protective gloves and protective clothing.	
P261	Avoid breathing dust/fumes.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing must not be allowed out of the workplace.	

### Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P333+P313	f skin irritation or rash occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P391	P391 Collect spillage.	

### Precautionary statement(s) Storage

Not Applicable

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Not Applicable

### **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
1314-13-2	5	zinc oxide
68411-46-1	1	octylated diphenylamines
13539-13-4	0.24	2.5-bis(octyldithio)-1.3.4-thiadiazole
25619-56-1	0.25	barium bis(dinonylnaphthalenesulfonate)

### **SECTION 4 First-aid measures**

### Description of first aid measures

Eye Contact	Generally not applicable.	
Skin Contact	If skin contact occurs: <ul> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> <li>Generally not applicable.</li> </ul>	
Inhalation	Generally not applicable.	
Ingestion	► Generally not applicable.	

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

See Section 11

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

Treat symptomatically.

## **SECTION 5 Fire-fighting measures**

### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

## Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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### NS-2609-G

### Special protective equipment and precautions for fire-fighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding 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> <li>Slight hazard when exposed to heat, flame and oxidisers.</li> </ul>
Fire/Explosion Hazard	Decomposition may produce toxic fumes of: metal oxides May emit corrosive fumes. Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place. Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.

### **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>Secure load if safe to do so.</li> <li>Bundle/collect recoverable product.</li> <li>Collect remaining material in containers with covers for disposal.</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>Wear physical protective gloves e.g. Leather.</li> <li>Contain spill/secure load if safe to do so.</li> <li>Bundle/collect recoverable product and label for recycling.</li> <li>Collect remaining product and place in appropriate containers for disposal.</li> <li>Clean up/sweep up area.</li> <li>Water may be required.</li> </ul>

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

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

#### Precautions for safe handling 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. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. Safe handling When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. + Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. Other information Store away from incompatible materials.

### Conditions for safe storage, including any incompatibilities

Suitable container	Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging or something providing a similar level of protection to both the article and the handler.
Storage incompatibility	None known

## SECTION 8 Exposure controls / personal protection

## Occupational Exposure Limits (OEL)

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	zinc oxide	Zinc oxide fume	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	zinc oxide	Zinc oxide- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	zinc oxide	Zinc oxide- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	zinc oxide	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	zinc oxide	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Availabl
US NIOSH Recommended Exposure Limits (RELs)	zinc oxide	Zinc oxide - Dust	5 mg/m3	Not Available	15 mg/m3	Not Availabl
US NIOSH Recommended Exposure Limits (RELs)	zinc oxide	Zinc oxide - Fume	5 mg/m3	10 mg/m3	Not Available	Not Availabl
US OSHA Permissible Exposure Limits (PELs) Table Z-1	octylated diphenylamines	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Availabl
US OSHA Permissible Exposure Limits (PELs) Table Z-1	octylated diphenylamines	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Availabl
US OSHA Permissible Exposure Limits (PELs) Table Z-3	octylated diphenylamines	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Availabl
US OSHA Permissible Exposure Limits (PELs) Table Z-3	octylated diphenylamines	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Availabl
US NIOSH Recommended Exposure Limits (RELs)	octylated diphenylamines	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D

Ingredient	TEEL-1	TEEL-2		TEEL-3
zinc oxide	10 mg/m3	15 mg/m3		2,500 mg/m3
Ingredient	Original IDLH		Revised IDLH	
zinc oxide	500 mg/m3		Not Available	
octylated diphenylamines	Not Available		Not Available	
2,5-bis(octyldithio)-1,3,4- thiadiazole	Not Available		Not Available	
barium bis(dinonylnaphthalenesulfonate)	Not Available		Not Available	
Occupational Exposure Banding				
Ingredient	Occupational Exposure Band Rating		Occupational	Exposure Band Limit
2,5-bis(octyldithio)-1,3,4- thiadiazole	E		≤ 0.1 ppm	

barium bis(dinonylnaphthalenesulfonate)	E ≤ 0.01 mg/m <sup>3</sup>	
Notes:	Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro range of exposure concentrations that are expected to protect worker hea	cess is an occupational exposure band (OEB), which corresponds to a

### Exposure controls

Appropriate engineering controls	Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses.</li> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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 a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>
Skin protection	See Hand protection below

Hands/feet protection	<ul> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</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>

## **Respiratory protection**

Respiratory protection not normally required due to the physical form of the product.

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

## Information on basic physical and chemical properties

Appearance	Brownish grease, petroleum odor		
Physical state	Manufactured	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	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)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
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 (Not Available%)	Not Available
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	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.

Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Eye			
Chronic	Skin contact with the material is more likely to cause a sense	itisation reaction in some persons compared to the general population.	
10 0000 0	ΤΟΧΙΟΙΤΥ	IRRITATION	
NS-2609-G	Not Available	Not Available	
	тохісіту	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit) : 500 mg/24 h - mild	
zinc oxide	Inhalation(Rat) LC50; >1.79 mg/l4h <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50; >5000 mg/kg <sup>[1]</sup>	Skin (rabbit) : 500 mg/24 h- mild	
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	тохісіту	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): Non Irritant	
octylated diphenylamines	Oral (Rat) LD50; >2000 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
		Skin (rabbit): Non Irritant [Bay]	
		Skin: adverse effect observed (irritating) <sup>[1]</sup>	
2,5-bis(octyldithio)-1,3,4-	тохісіту	IRRITATION	
thiadiazole	Not Available	Not Available	
barium bis(dinonylnaphthalenesulfonate)	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: ~10 mg/kg <sup>[1]</sup>	Not Available	
	Oral (Rat) LD50; ~1750 mg/kg <sup>[1]</sup>		
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substanc specified data extracted from RTECS - Register of Toxic Eft</li> </ol>	es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise fect of chemical Substances	

ZINC OXIDE	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
OCTYLATED DIPHENYLAMINES	Heating of substituted diphenylamines may generate vapours which can irritate the eyes and airways. Drying of skin and mucous membranes leading to irritation may occur with prolonged or repeated contact. Overexposure may cause skin and airway irritation with dizziness and flu-like symptoms. All show a slight to very low order of toxicity following oral or topical administration. There is very low potential to cause gene mutations. Potential sensitiser producing contact allergies.
2,5-BIS(OCTYLDITHIO)-1,3,4- THIADIAZOLE	No significant acute toxicological data identified in literature search.
BARIUM BIS(DINONYLNAPHTHALENESULFONATE)	For alkaryl sulfonate petroleum additives: Acute toxicity: Existing data indicates relatively low acute toxicity. Animal testing suggested diarrhea and reduced food intake, which is consistent with the detergents in an oil-based vehicle having an irritating effect on the gastrointestinal tract. Subchronic toxicity: Existing data suggests minimal toxicity after chronic exposure by mouth. Repeated skin contact and inhalation in animals caused injury to the skin and the lungs, respectively. Reproductive and Developmental Toxicity: Existing data did not show this group of substances to cause reproductive or developmental toxicity. There was low concern for mutation-causing potential. For dinonylnaphthalenesulfonic acid (DNNSA) and its salts: In general, a compound needs to be dissolved before it can be taken up from the gastro-intestinal tract after oral administration . Calcium bis( di C8-C10, branched, C9 rich, alkylnaphthalene sulphonate) (CaDNNSA) has a measured water solubility of 0.266 mg/L and therefore it is expected to dissolve into the gastrointestinal fluids to a very limited extent. Uptake by passive diffusion is possible, but limited due to the high molecular weight of the salt (average MW 959) and its dissociation product DNNSA (MW 461). CaDNNSA has a high log Pow 6.6), which makes the compound relatively hydrophobic. This characteristic will enable micellular solubilisation by bile salts in the gastro-intestinal tract which allows some crossing of lipid biomembranes. The structure contains an ionizable group (SO3H), which might hamper diffusion across biological membranes. In addition, the molecular size of the molecular of 19 Å does not favor uptake across the biological membranes. In addition, the molecular oby weight (gain). The egastrointestinal tract also became apparent in males at 300 and 1000 mg/kg bw. These animals also had a reduced body weight (gain). Other effects included changes in numbers of white blood cells, lymphocytes, platelets as well as effects on several biochemical parameters.

	· · · · · · · · · · · · · · · · · · ·
NS-2609-G & OCTYLATE DIPHENYLAMINES 2,5-BIS(OCTYLDITHIO)-1,3, THIADIAZOL	contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly
	molecules of this size do not pass readily through cell membranes, thus limiting wide distribution. Excretely. Irritation: Calcium bild (d-C8-10, branched, C9 rich, alkylnaphthalenesulphonate) is irritating to skin and eyes. It is not corrosive. Sensitisation: In the Bushler assay the substance was shown to be a weak skin sensitiser, while a human patch test showed no sensitization in human volunteers. Genetic toxicity: The Barium analog was found to be non-mutagenic in the Ames bacterial reverse mutation assay and the mouse lymphoma test (MLA). The substance was did not cause chromosomal abertations in human peripheral lymphocytes. Reproductive toxicity: DNNSA (di C8-C10, branched, C9 rich, alkylnaphthalene sulphonic acid) is the major structural component of Calcium bis( di C8-r01, branched, c9 rich, alkylnaphthalene sulphonate). The DECD 422 repeat dose and reproduction/development study with DNNSA provides reliable read-across for developmental endpoints for Calcium bis( di C8-C10, branched, c9 rich, alkylnaphthalene sulphonate). A second OECD 422 study conducted with another analog, Barium bis( di c8-c10, branched, c9 rich, alkylnaphthalene sulphonate). A second OECD 422 study conducted with another analog, Barium bis( di c8-c10, branched, c9 rich, alkylnaphthalene sulphonate). A second OECD 422 study conducted with a mother analog, Barium bis( di c8-c10, branched, c9 rich, alkylnaphthalene sulphonate). A second OECD 422 study conducted with a mother analog. Barium bis( di c8-c10, branched, c9 rich, alkylnaphthalene sulphonate). A second OECD 422 study conducted with a TBN greater than 300 are not skin sensitisers while the results in animals at a TBN (Total Base Number) of 300 exhibit a mixed skin sensitisation response. However, human repeat insult patch tests clearly show that high TBN overbased calcium sulfonates (TBN - 300) are not skin sensitisers while the results in animals at a TBN teal 40; C10 No. 1727; 2008. The weight-f-evidence indicates that low TBN sodium and calciu

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		<b>u</b>	t available or does not fill the criteria for classification to make classification

## **SECTION 12 Ecological information**

## Toxicity

NS-2609-G zinc oxide	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Val	ue	Source
	BCF	1344h	Fish	19-	110	7
	EC50	72h	Algae or other aquatic plants	0.0	36-0.049mg/l	4
	EC50	48h	Crustacea	0.3	01-0.667mg/l	4
	NOEC(ECx)	72h	Algae or other aquatic plants	0.0	05mg/l	2

	LC50	96h	Fish	0.927-2.589mg/l	4
	EC50	96h	Algae or other aquatic plants	0.3mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	24h	Crustacea	4.2mg/l	Not Available
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
octylated diphenylamines	EC50	48h	Crustacea	51mg/l	2
	LC50	96h	Fish	5.1mg/l	Not Available
	EC50	96h	Algae or other aquatic plants	870mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
2,5-bis(octyldithio)-1,3,4- thiadiazole	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
barium bis(dinonyInaphthalenesulfonate)	EC50	72h	Algae or other aquatic plants	1.2mg/l	2
	EC50	48h	Crustacea	>0.18mg/l	2
	EC50(ECx)	48h	Crustacea	>0.18mg/l	2
	LC50	96h	Fish	>0.28mg/l	2

- Bioconcentration Data 8. Vendor Data

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

For Metal:

Atmospheric Fate - Metal-containing inorganic substances generally have negligible vapour pressure and are not expected to partition to air.

Environmental Fate: Environmental processes, such as oxidation, the presence of acids or bases and microbiological processes, may transform insoluble metals to more soluble ionic forms. Environmental processes may enhance bioavailability and may also be important in changing solubilities.

Aquatic/Terrestrial Fate: When released to dry soil, most metals will exhibit limited mobility and remain in the upper layer; some will leach locally into ground water and/ or surface water ecosystems when soaked by rain or melt ice. A metal ion is considered infinitely persistent because it cannot degrade further. Once released to surface waters and moist soils their fate depends on solubility and dissociation in water. A significant proportion of dissolved/ sorbed metals will end up in sediments through the settling of suspended particles. The remaining metal ions can then be taken up by aquatic organisms. Ionic species may bind to dissolved ligands or sorb to solid particles in water. Ecotoxicity: Even though many metals show few toxic effects at physiological pH levels, transformation may introduce new or magnified effects.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
octylated diphenylamines	HIGH	HIGH

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
zinc oxide	LOW (BCF = 217)
octylated diphenylamines	LOW (BCF = 5.5)

### Mobility in soil

Ingredient	Mobility
octylated diphenylamines	LOW (KOC = 28640000)

## **SECTION 13 Disposal considerations**

Product / Packaging disposal   Recycle wherever possible or consult manufacturer for recycling options.  Consult State Land Waste Management Authority for disposal.	Waste treatment methods	
	Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> </ul>

## **SECTION 14 Transport information**

### Labels Required

Marine Pollutant

### 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 oxide	Not Available
octylated diphenylamines	Not Available
2,5-bis(octyldithio)-1,3,4- thiadiazole	Not Available
barium bis(dinonyInaphthalenesulfonate)	Not Available

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

Product name	Ship Type
zinc oxide	Not Available
octylated diphenylamines	Not Available
2,5-bis(octyldithio)-1,3,4- thiadiazole	Not Available
barium bis(dinonyInaphthalenesulfonate)	Not Available

## **SECTION 15 Regulatory information**

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

### zinc oxide is found on the following regulatory lists

zinc oxide is found on the following regulatory lists	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US EPA Integrated Risk Information System (IRIS)
Monographs	US EPCRA Section 313 Chemical List
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans	US NIOSH Recommended Exposure Limits (RELs)
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for	US OSHA Permissible Exposure Limits (PELs) Table Z-1 US OSHA Permissible Exposure Limits (PELs) Table Z-3
Manufactured Nanomaterials (MNMS)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5	US TSCA Chemical Substance Inventory - Interim List of Active Substances
US - Massachusetts - Right To Know Listed Chemicals	
US CWA (Clean Water Act) - Priority Pollutants	
US CWA (Clean Water Act) - Toxic Pollutants	
US DOE Temporary Emergency Exposure Limits (TEELs)	
octylated diphenylamines is found on the following regulatory lists	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US OSHA Permissible Exposure Limits (PELs) Table Z-1
Monographs	US OSHA Permissible Exposure Limits (PELs) Table Z-3
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)	
US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5	
US NIOSH Recommended Exposure Limits (RELs)	
2,5-bis(octyldithio)-1,3,4-thiadiazole is found on the following regulatory lists	
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	US TSCA Chemical Substance Inventory - Interim List of Active Substances
barium bis(dinonylnaphthalenesulfonate) is found on the following regulatory lists	
US EPA Integrated Risk Information System (IRIS)	US TSCA Chemical Substance Inventory - Interim List of Active Substances
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	
Federal Regulations	
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Section 311/312 hazard categories	

#### Flammable (Gases, Aerosols, Liquids, or Solids) No Gas under pressure No Explosive No Self-heating No Pyrophoric (Liquid or Solid) No Pyrophoric Gas No Corrosive to metal No Oxidizer (Liquid, Solid or Gas) No

Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

## State Regulations

US. California Proposition 65 None Reported

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (octylated diphenylamines; 2,5-bis(octyldithio)-1,3,4-thiadiazole; barium bis(dinonylnaphthalenesulfonate))
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (2,5-bis(octyldithio)-1,3,4-thiadiazole)
Vietnam - NCI	No (2,5-bis(octyldithio)-1,3,4-thiadiazole)
Russia - FBEPH	No (2,5-bis(octyldithio)-1,3,4-thiadiazole)
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	08/17/2022
Initial Date	08/18/2022

#### 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

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

STEL: Short Term Exposure Limit

end of SDS

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 and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substances Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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