

#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1. Product Identifier

Product name	MC011533
Synonyms	MC011533
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains zinc oxide)
Other means of identification	Not Available

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

Relevant identified uses	Multi-purpose lubricant
Uses advised against	Not Applicable

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

Registered company name	Premier Farnell plc	
Address         150 Armley Road, Leeds, LS12 2QQ           Telephone         +44 (0) 870 129 8608		
		Fax
1.4. Emergency telephone number		
Association / Organisation		

Association / Organisation	Premier Farnell plc
Emergency telephone numbers	+44 1865 407333
Other emergency telephone numbers	NA
SECTION 2 HAZARDS IDENTIFICATION	

#### 2.1. Classification of the substance or mixture

#### Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Classified as Dangerous Goods for transport purposes.

Classification according to regulation (EC) No 1272/2008 [CLP] <sup>[1]</sup>	H411 - Chronic Aquatic Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

#### 2.2. Label elements

CLP label elements	
SIGNAL WORD	NOT APPLICABLE
Hazard statement(s)	
H411	Toxic to aquatic life with long lasting effects.
Supplementary statement(s	s)
Precautionary statement(s) Prevention	

P273 Avoid release to the environment.





#### Precautionary statement(s) Response

P391 Collect spillage.

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Dispose of contents/container in accordance with local regulations.

#### 2.3. Other hazards

Cumulative effects may result following exposure\*.

P501

May produce discomfort of the eyes\*.

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

#### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.64742-65-0* 2.265-169-7 3.649-474-00-6 4.01-2119471299-27-XXXX	62	paraffinic distillate, heavy, solvent-dewaxed (mild)	Not Applicable
1.64742-62-7. 2.265-166-0 3.649-471-00-X 4.01-2119480472-38-XXXX	27	residual oils, petroleum, solvent dewaxed	Not Applicable
1.7620-77-1* 2.231-536-5 3.Not Available 4.01-2119970893-23-XXXX	5	lithium hydroxystearate	Not Applicable
1.1314-13-2 2.215-222-5 3.030-013-00-7 4.01-2119463881-32-XXXX	4	zinc oxide	Acute Aquatic Hazard Category 1, Chronic Aquatic Hazard Category 1; H410 $^{[3]}$
1.13463-67-7* 2.236-675-5 3.Not Available 4.01-2119489379-17-XXXX	1	<u>titanium dioxide</u>	Not Applicable
Legend:		y Chemwatch; 2. Classification drawn from EC Directive ation drawn from C&L	67/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 - Annex

#### SECTION 4 FIRST AID MEASURES

## 4.1. Description of first aid measures If skin or hair contact occurs: • Flush skin and hair with running water (and soap if available). • Seek medical attention in event of irritation. If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. • If fumes, aerosols or combustion products are inhaled remove from contaminated area. • Other measures are usually unnecessary. • Immediately give a glass of water. • First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.





Eye Contact	If this product comes in contact with eyes:  Vash out immediately with water.  If irritation continues, seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
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	If fumes, aerosols or combustion products are inhaled remove from contaminated area.     Other measures are usually unnecessary.
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

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

See Section 11

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

Treat symptomatically.

#### SECTION 5 FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

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

#### 5.2. 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

5.3. Advice for firefighters

5.5. Advice for menginers	
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 solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fire grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and firecely if ignited - particles exceeding this limit will will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>In the same way as gases and vapours, dusts in the form of a cloud are only ignitable orver a range of concentrations; in principle, the concepts of lower explosive limit (LEL) are applicable to dust dust dust but only the LEL is of practical user, - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is of practical user, - this is because of the inherent rate of explosion pressure rise and the Minimum Ignition Energy (the minimum amount of energy required to ignite dust clouds - MIE) will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture will be lower than the individual LELs for the vapors/mists or dusts.</li> <li>A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive for</li></ul>





Fire/Explosion Hazard
+ Autoignition temperatures are often quoted for dust clouds (minimum ignition temperature (MIT)) and dust layers (layer ignition temperature (LIT)); LIT
generally falls as the thickness of the layer increases.
Combustion products include:
carbon monoxide (CO)
carbon dioxide (CO2)
other pyrolysis products typical of burning organic material.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures See section 8

#### 6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

Environmental hazard - contain spillage Minor Spills Clean up all spills immediately. Avoid contact with skin and eyes Wear impervious gloves and safety glasses. Use dry clean up procedures and avoid generating dust. Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Do NOT use air hoses for cleaning Place spilled material in clean, dry, sealable, labelled container. Environmental hazard - contain spillage. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment and dust respirator. Major Spills Prevent spillage from entering drains, sewers or water courses. Avoid generating dust. Sweep, shovel up. Recover product wherever possible. Put residues in labelled plastic bags or other containers for disposal. If contamination of drains or waterways occurs, advise emergency services.

#### 6.4. Reference to other sections

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

#### SECTION 7 HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

	Limit all unnecessary personal contact.
	Wear protective clothing when risk of exposure occurs.
	► Use in a well-ventilated area.
	Avoid contact with incompatible materials.
	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.
	<ul> <li>Work clothes should be laundered separately.</li> </ul>
	Use good occupational work practice.
	<ul> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
	Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
	Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing
	medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)
	Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.
Safe handling	Establish good housekeeping practices.
Gale handling	Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.
	Use continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be given to overhead and hidden horizontal surfaces to minimise the probability of a "secondary" explosion. According to NFPA Standard 654, dust layers 1/32 in.(0.8 mm) thick can be sufficient to warrant immediate cleaning of the area.
	<ul> <li>Do not use air hoses for cleaning.</li> <li>Minimise dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Vacuums with explosion-proof motors should be used.</li> </ul>





	<ul> <li>Control sources of static electricity. Dusts or their packages may accumulate static charges, and static discharge can be a source of ignition.</li> <li>Solids handling systems must be designed in accordance with applicable standards (e.g. NFPA including 654 and 77) and other national guidance.</li> <li>Do not empty directly into flammable solvents or in the presence of flammable vapors.</li> <li>The operator, the packaging container and all equipment must be grounded with electrical bonding and grounding systems. Plastic bags and plastics cannot be grounded, and antistatic bags do not completely protect against development of static charges.</li> <li>Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.</li> <li>Do NOT cut, drill, grind or weld such containers.</li> <li>In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.</li> </ul>
Fire and explosion protection	See section 5
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</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> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>

#### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material.</li> <li>Resultant overflow of containers may result in fire.</li> <li>Avoid reaction with oxidising agents</li> </ul>

#### 7.3. Specific end use(s)

See section 1.2

#### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

#### DERIVED NO EFFECT LEVEL (DNEL)

Not Available

#### PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA		STE	L	Peak		Notes
UK Workplace Exposure Limits (WELs)	titanium dioxide	Titanium dioxide total inhalable / Titanium dioxide respirable	10 mg/i	m3 / 4 mg/m3	Not A	Available	Not Availa	ble	Not Available
EMERGENCY LIMITS									
Ingredient	Material name			TEEL-1		TEEL-2		TEE	L-3
paraffinic distillate, heavy, solvent-dewaxed (mild)	Pump oil; (petrole	um distillates, solvent de-waxed heavy paraffinic		140 mg/m3		1,500 mg/	′m3	8,90	0 mg/m3
zinc oxide	Zinc oxide			10 mg/m3		15 mg/m3	3	2,50	0 mg/m3
titanium dioxide	Titanium oxide; (T	ïtanium dioxide)		30 mg/m3		330 mg/m	13	2,00	0 mg/m3





Ingredient	Original IDLH	Revised IDLH
paraffinic distillate, heavy, solvent-dewaxed (mild)	Not Available	Not Available
residual oils, petroleum, solvent dewaxed	Not Available	Not Available
lithium hydroxystearate	Not Available	Not Available
zinc oxide	2,500 mg/m3	500 mg/m3
titanium dioxide	N.E. mg/m3 / N.E. ppm	5,000 mg/m3

#### MATERIAL DATA

for zinc oxide:

Zinc oxide intoxication (intoxication zincale) is characterised by general depression, shivering, headache, thirst, colic and diarrhoea.

Exposure to the fume may produce metal fume fever characterised by chills, muscular pain, nausea and vomiting. Short-term studies with guinea pigs show pulmonary function changes and morphologic evidence of small airway inflammation. A no-observed-adverse-effect level (NOAEL) in guinea pigs was 2.7 mg/m3 zinc oxide. Based on present data, the current TLV-TWA may be inadequate to protect exposed workers although known physiological differences in the guinea pig make it more susceptible to functional impairment of the airways than humans. These "dusts" have little adverse effect on the lungs and do not produce toxic effects or organic disease. Although there is no dust which does not evoke some cellular response at sufficiently high concentrations, the cellular response caused by P.N.O.C.s has the following characteristics:

the architecture of the air spaces remain intact,

- · scar tissue (collagen) is not synthesised to any degree,
- tissue reaction is potentially reversible.
- Extensive concentrations of P.N.O.C.s may:
  - seriously reduce visibility
  - · cause unpleasant deposits in the eyes, ears and nasal passages,

contribute to skin or mucous membrane injury by chemical or mechanical action, per se, or by the rigorous skin cleansing procedures necessary for their removal. [ACGIH] This limit does not apply:

- to brief exposures to higher concentrations
- nor does it apply to those substances that may cause physiological impairment at lower concentrations but for which a TLV has as yet to be determined.
- This exposure standard applies to particles which
  - are insoluble or *poorly soluble*\* in water or, preferably, in aqueous lung fluid (if data is available) and
  - have a low toxicity (i.e.. are not cytotoxic, genotoxic, or otherwise chemically reactive with lung tissue, and do not emit ionizing radiation, cause immune sensitization, or cause toxic effects other than by inflammation or by a mechanism of lung overload)

NOTE M: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.005% w/w benzo[a]pyrene (EINECS No 200-028-5). This note applies only to certain complex oil-derived substances in Annex IV.

European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP

NOTE L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. European Union (EU) List of harmonised classification and labelling hazardous substances, Table 3.1, Annex VI, Regulation (EC) No 1272/2008 (CLP) - up to the latest ATP

#### 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineer effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation tha "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ver the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.	strategically "adds" and
	<ul> <li>Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively lar powdered by mutual friction.</li> <li>Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.</li> <li>If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be conside consist of: <ul> <li>(a): particle dust respirators, if necessary, combined with an absorption cartridge;</li> <li>(b): filter respirators with absorption cartridge or canister of the right type;</li> <li>(c): fresh-air hoods or masks</li> <li>Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding.</li> <li>Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as exp.</li> </ul> </li> </ul>	lered. Such protection might
	Type of Contaminant:	Air Speed:
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	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		
8.2.1. Appropriate	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
engineering controls	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 away from the opening of a simple ex of distance from the extraction point (in simple cases). Therefore the air speed at the extraction poin distance from the contaminating source. The air velocity at the extraction fan, for example, should be crusher dusts generated 2 metres distant from the extraction point. Other mechanical consideration apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe	tt should be adjusted, accordingly, after reference to a minimum of 4-10 m/s (800-2000 f/min) for extraction of s, producing performance deficits within the extraction		
8.2.2. Personal protection				
Eye and face protection	<ul> <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 irrillenses or restrictions on use, should be created for each workplace or task. This should include chemicals in use and an account of injury experience. Medical and first-aid personnel should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove at the first signs of eye redness or irritation - lens should be removed in a clean environment on Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>	e a review of lens absorption and adsorption for the class o e trained in their removal and suitable equipment should be e contact lens as soon as practicable. Lens should be remo		
Skin protection	See Hand protection below			
Hands/feet protection	<ul> <li>to the application.</li> <li>The exact break through time for substances has to be obtained from the manufacturer of the protect choice.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. thoroughly. Application of a non-perfumed moisturizer is recommended.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of glove trip and duration of contact, <ul> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> <li>dexterity</li> </ul> </li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or nation 4 exterity</li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or nation 4 exterity</li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or nation 4 exterity</li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or nation 4 exterity</li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent) is recommended.</li> <li>When only brief contact is expected, a glove with a protection class of 3 or higher (EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taken contaminated gloves should be replaced.</li> </ul> For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. I should be emphasised that glove thickness is not necessarily a good predictor of glove resistance glove will be dependent on the exact composition of the glove material. Therefore, glove selection sh requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove material. Therefore, glove selection sh requirements and knowledge of breakthrough times. Glove thickness may also vary depending	After using gloves, hands should be washed and dried oves include: anal equivalent). on class of 5 or higher (breakthrough time greater than 240 d. (breakthrough time greater than 60 minutes according to n into account when considering gloves for long-term use. to a specific chemical, as the permeation efficiency of the ould also be based on consideration of the task odel. Therefore, the manufacturers' technical data should becific tasks. For example: manual dexterity is needed. However, these gloves are only ons, then disposed of. at (as well as a chemical) risk i.e. where there is abrasion o oroughly. Application of a non-perfumed moisturiser is		
	<ul> <li>polycinotopiene.</li> <li>initrile rubber.</li> <li>butyl rubber.</li> <li>fluorocaoutchouc.</li> <li>polyvinyl chloride.</li> <li>Gloves should be examined for wear and/ or degradation constantly.</li> </ul>			





Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Barrier cream. • Eyewash unit.
Thermal hazards	Not Available

#### **Respiratory protection**

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A P1 Air-line*	-	A PAPR-P1 -
up to 50 x ES	Air-line**	A P2	A PAPR-P2
up to 100 x ES	-	A P3	-
		Air-line*	-
100+ x ES	-	Air-line**	A PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

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)

▶ Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective

equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or

- vendor recommended.

   Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protectio program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

#### 8.2.3. Environmental exposure controls

See section 12

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Appearance	Off white		
Physical state	Solid	Relative density (Water = 1)	0.89
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	254
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	185	Viscosity (cSt)	>20.5
Initial boiling point and boiling range (°C)	371	Molecular weight (g/mol)	Not Available
Flash point (°C)	185	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 Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available





 Solubility in water (g/L)
 Immiscible
 pH as a solution (1%)
 Not Available

 Vapour density (Air = 1)
 Not Available
 VOC g/L
 Not Available

9.2. Other information

Not Available

#### SECTION 10 STABILITY AND REACTIVITY

10.1.Reactivity	See section 7.2
10.2. Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classifie Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control n	,
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by inges animal or human evidence. The material may still be damaging to the health of the individual, following inges kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses p morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occ quantities is not thought to be cause for concern.	stion, especially where pre-existing organ (e.g liver, producing mortality rather than those producing
Skin Contact	The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described unlikely to produce an irritant dermatitis as described in EC Directives . The material may accentuate any pre-existing dermatitis condition	as non-allergic contact dermatitis. The material is
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the e by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. The material individuals.	
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified nevertheless exposure by all routes should be minimised as a matter of course.	by EC Directives using animal models);
8461 White Lithium Grease	TOXICITY #551oil#551oilresid#551oilsev <sup>[2]</sup>	IRRITATION Not Available
paraffinic distillate, heavy, solvent-dewaxed (mild)	TOXICITY           Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup> Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	IRRITATION Not Available
	TOXICITY           Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >3.9 mg//4hr <sup>[1]</sup> Inhalation (rat) LC50: >4.7 mg//4hr <sup>[1]</sup>	IRRITATION Not Available
residual oils, petroleum, solvent dewaxed	Inhalation (rat) LC50: >5 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.2 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: >5.3 mg/l/4hr <sup>[1]</sup> Inhalation (rat) LC50: 10.5 mg/l/4hr <sup>[1]</sup>	





	Inhalation (rat) LC50: 5.7 mg/l/4hr <sup>[1]</sup>		
residual oils, petroleum,	Inhalation (rat) LC50: 9.6 mg//4hr <sup>[1]</sup>		
solvent dewaxed			
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>		
lithium hydroxystearate	TOXICITY	IRRITATION	
	Not Available	Not Available	
zinc oxide	TOXICITY	IRRITATION	
2ine Oxide	Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>	Eye (rabbit) : 50	-
		Skin (rabbit) : 50	00 mg/24 h- mild
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute to		rom manufacturer's SDS. Unless otherwise specified data
	extracted from RTECS - Register of Toxic Effect of chemical Substance	S	
	for the short and Mide Defined Distillate Date Office		
	for Unrefined and Mildly Refined Distillate Base Oils Acute toxicity: LD50s of >5000 mg/kg (bw) and >2g/kg (bw) for the ora	l and dermal routes of exp	posure, respectively, have been observed in rats dosed with an
paraffinic distillate, heavy, solvent-dewaxed (mild)	unrefined light paraffinic distillate The same material was also reported in rabbits, the material produced Draize scores of 3.0 and 4.0 (unwashed/		-
(()			
	WARNING: This substance has been classified by the IARC as Group Residual Base Oils	CARCINOGENIC TO	HUMANS.
RESIDUAL OILS,	Residual oils have substantial polycyclic aromatic compound (PAC) leve	ls when assayed by traditi	onal methods. On this basis, they would be expected to have
PETROLEUM, SOLVENT	mutagenic and/or carcinogenic activity. Highly and Severely Refined Distillate Base Oils		
DEWAXED	Acute toxicity: Multiple studies of the acute toxicity of highly & severely extent of processing, the oral LD50s have been observed to be >5 g/kg		
lithium hydroxystearate	Fatty acid salts are of low acute toxicity. Their skin and eye irritation pote poorly absorbed through the skin nor are they skin sensitisers.	ntial is chain length deper	ndent and decreases with increasing chain length - they are
	The material may produce moderate eye irritation leading to inflammatic	n. Repeated or prolonged	exposure to irritants may produce conjunctivitis.
	For titanium dioxide: Humans can be exposed to titanium dioxide via inhalation, ingestion or c	ermal contact. In human l	ungs, the clearance kinetics of titanium dioxide is poorly
titanium dioxide	characterized relative to that in experimental animals.		
	WARNING: This substance has been classified by the IARC as Group * IUCLID	2B: Possibly Carcinogen	ic to Humans.
	The materials included in the Lubricating Base Oils category are related	from both process and p	hvsical-chemical perspectives:
paraffinic distillate, heavy,	The potential toxicity of a specific distillate base oil is inversely related to	the severity or extent of p	
solvent-dewaxed (mild) & RESIDUAL OILS,	<ul> <li>The adverse effects of these materials are associated with undesira</li> <li>The levels of the undesirable components are inversely related to the</li> </ul>		
PETROLEUM, SOLVENT DEWAXED	<ul> <li>Distillate base oils receiving the same degree or extent of processi</li> <li>The potential toxicity of <i>residual base oils</i> is independent of the degree</li> </ul>		
	The reproductive and developmental toxicity of the distillate base oil		
RESIDUAL OILS, PETROLEUM, SOLVENT			
DEWAXED & lithium	No significant acute toxicological data identified in literature search.		
hydroxystearate	The second secon		and a statement of the
ZINC OXIDE & titanium dioxide	The material may cause skin irritation after prolonged or repeated exposi- characterised by skin redness (erythema) and swelling epidermis.	sure and may produce a c	xontact dermatuus (nonaliergic). This form of dermatuus is often
Acute Toxicity	×	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	⊗ st	OT - Single Exposure	0
Respiratory or Skin sensitisation	S STOT	- Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0
			<ul> <li>Data available but does not fill the criteria for classification</li> <li>Data available to make classification</li> </ul>

S – Data Not Available to make classification





#### SECTION 12 ECOLOGICAL INFORMATION

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
paraffinic distillate, heavy, solvent-dewaxed (mild)	EC50	48	Crustacea	>1000mg/L	1
paraffinic distillate, heavy, solvent-dewaxed (mild)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
paraffinic distillate, heavy, solvent-dewaxed (mild)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
paraffinic distillate, heavy, solvent-dewaxed (mild)	NOEC	504	Crustacea	>1mg/L	1
residual oils, petroleum, solvent dewaxed	EC50	48	Crustacea	>1000mg/L	1
residual oils, petroleum, solvent dewaxed	EC50	48	Crustacea	>1000mg/L	1
residual oils, petroleum, solvent dewaxed	NOEC	504	Crustacea	>1mg/L	1
zinc oxide	LC50	96	Fish	0.439mg/L	2
zinc oxide	EC50	48	Crustacea	0.105mg/L	2
zinc oxide	EC50	72	Algae or other aquatic plants	0.042mg/L	4
zinc oxide	BCF	336	Fish	4376.673mg/L	4
zinc oxide	EC20	72	Algae or other aquatic plants	0.023mg/L	4
zinc oxide	NOEC	72	Algae or other aquatic plants	0.0049mg/L	2
titanium dioxide	LC50	96	Fish	9.214mg/L	3
titanium dioxide	EC50	48	Crustacea	>10mg/L	2
titanium dioxide	EC50	72	Algae or other aquatic plants	5.83mg/L	4
titanium dioxide	EC20	72	Algae or other aquatic plants	1.81mg/L	4
titanium dioxide	NOEC	336	Fish	0.089mg/L	4

(Japan) - Bioconcentration Data 7. METI (Japan) - 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.

#### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
titanium dioxide	HIGH	HIGH

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
zinc oxide	LOW (BCF = 217)
titanium dioxide	LOW (BCF = 10)

#### 12.4. Mobility in soil

Ingredient	Mobility
titanium dioxide	LOW (KOC = 23.74)

#### 12.5.Results of PBT and vPvB assessment

	Р	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available





#### 12.6. Other adverse effects

No data available

#### SECTION 13 DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Product / Packaging disposal	<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> </ul>
Waste treatment options	Not Available
Sewage disposal options	Not Available

#### **SECTION 14 TRANSPORT INFORMATION**

# Labels Required Marine Pollutant HAZCHEM 2Z

#### Land transport (ADR)

Land transport (ADR)			
14.1.UN number	3077		
14.2.UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains zinc oxide)		
14.3. Transport hazard class(es)	Class9SubriskNot Applicable		
14.4.Packing group	II		
14.5.Environmental hazard	Not Applicable		
14.6. Special precautions for user	Hazard identification (Kemler)90Classification codeM7Hazard Label9Special provisions274 335 375 601Limited quantity5 kg		

#### Air transport (ICAO-IATA / DGR)

14.1. UN number	3077	
14.2. UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. * (contains zinc oxide)	
14.3. Transport hazard class(es)	ICAO/IATA Class9ICAO / IATA SubriskNot ApplicableERG Code9L	
14.4. Packing group	III	
14.5. Environmental hazard	Not Applicable	





	Special provisions	A97 A158 A179 A197
	Cargo Only Packing Instructions	956
	Cargo Only Maximum Qty / Pack	400 kg
14.6. Special precautions for user	Passenger and Cargo Packing Instructions	956
	Passenger and Cargo Maximum Qty / Pack	400 kg
	Passenger and Cargo Limited Quantity Packing Instructions	Y956
	Passenger and Cargo Limited Maximum Qty / Pack	30 kg G

#### Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3077		
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains zinc oxide)		
14.3. Transport hazard class(es)	IMDG Class9IMDG SubriskNot Applicable		
14.4. Packing group	III		
14.5. Environmental hazard	Marine Pollutant		
14.6. Special precautions for user	EMS NumberF-A, S-FSpecial provisions274 335 966 967 969Limited Quantities5 kg		

#### Inland waterways transport (ADN)

14.1. UN number	3077		
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains zinc oxide)		
14.3. Transport hazard class(es)	9 Not Applicable		
14.4. Packing group	M .		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Classification codeM7Special provisions274; 335; 375; 601Limited quantity5 kgEquipment requiredPP, A***Fire cones number0		

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

#### SECTION 15 REGULATORY INFORMATION

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

PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (MILD)(64742-65-0*) IS FOUND ON THE FOLLOWING REGULATORY LISTS			
EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31		
EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: category 1B (Table 3.1)/category 2 (Table 3.2)	European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances (updated by ATP: 31) - Carcinogenic Substances		
European Customs Inventory of Chemical Substances ECICS (English)	European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and		
European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)	Packaging of Substances and Mixtures - Annex VI		



## multicomp

#### RESIDUAL OILS, PETROLEUM, SOLVENT DEWAXED(64742-62-7.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31
EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: category 1B (Table 3.1)/category 2 (Table 3.2)	European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances (updated by ATP: 31) - Carcinogenic Substances
European Customs Inventory of Chemical Substances ECICS (English)	European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and
European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)	Packaging of Substances and Mixtures - Annex VI
European Customs Inventory of Chemical Substances ECICS (English)	European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)
	(English)
ZINC OXIDE(1314-13-2) IS FOUND ON THE FOLLOWING BEGULATORY LISTS	

#### ZINC OXIDE(1314-13-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List of Substances

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles European Customs Inventory of Chemical Substances ECICS (English) European Trade Union Confederation (ETUC) Priority List for REACH Authorisation

#### TITANIUM DIOXIDE(13463-67-7\*) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List of Substances

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English) European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31 European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

European Trade Union Confederation (ETUC) Priority List for REACH Authorisation European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English) UK Workplace Exposure Limits (WELs)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments

#### 15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

#### ECHA SUMMARY

Ingredient	CAS number	Index No	ECHA Dossier	
paraffinic distillate, heavy, solvent-dewaxed (mild)	64742-65-0* 649-474-00-6		01-2119471299-27-XXXX	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Carc. 1B		GHS08, Dgr	H350
2	Carc. 1B, Asp. Tox. 1, Repr. 2, STOT RE 1, Aquatic Chronic 4, Skin Irrit. 2, Acute Tox. 3, STOT RE 2, Muta. 2		GHS08, Dgr, GHS06	H350, H304, H361, H372, H315, H331, H341
Harmonization Code 1 - The m	ast provalant classification. Harmonisation Con	a Q The meet cover classification		

= The most prevalent classification. Harmonisation Code 2 = The most severe class

Ingredient	CAS number	Index No	ECHA Dossier
residual oils, petroleum, solvent dewaxed	64742-62-7.	649-471-00-X	01-2119480472-38-XXXX

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Not Classified	GHS08, Dgr	H350, H304, H361, H372
2	Carc. 1B, Asp. Tox. 1, Repr. 2, STOT RE 1	GHS08, Dgr	H350, H304, H361, H372

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No		ECHA Dossier	
lithium hydroxystearate	7620-77-1*	Not Availab	le	01-2119970893-23-XXX	<
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word	Code(s)	Hazard Statement Code(s)
1	Not Classified		GHS07, Wng		H315, H319, H335, H315)
2	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3		GHS07, Wng		H315, H319, H335, H315)
Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.					





Ingredient	CAS number	Index No	ECHA Dossier	
zinc oxide	1314-13-2	030-013-00-7	01-2119463881-32-XXXX	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Aquatic Acute 1		GHS09, Wng	H360, H335, H370, H372, H314, H318, H350, H300, H330, H317, H341
2	Aquatic Acute 1, Aquatic Chronic 1, Acute Tox. 4, Repr. 1A, STOT RE 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT SE 1, STOT RE 1, Skin Corr. 1B, Eye Dam. 1, Carc. 1A, Acute Tox. 2, Skin Sens. 1, Muta. 2		GHS09, Wng, GHS08, Dgr, GHS05, GHS06	H360, H335, H370, H372, H314, H318, H350, H300, H330, H317, H341
1	Aquatic Acute 1, Aquatic Chronic 1		GHS09, Wng	H360, H335, H370, H372, H314, H318, H350, H300, H330, H317, H341
2	Aquatic Acute 1, Aquatic Chronic 1		GHS09, Wng	H360, H335, H370, H372, H314, H318, H350, H300, H330, H317, H341

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier	
titanium dioxide	13463-67-7*	Not Available	01-2119489379-17-XXXX	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Not Classified		GHS08, Wng, Dgr	H332, H335, H372, H350, H315, H318, H302, H312
2	Acute Tox. 4, Carc. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1, STOT SE 2, Carc. 1B, Skin Irrit. 2, Aquatic Chronic 4, STOT RE 2		GHS08, Wng, Dgr	H332, H335, H372, H350, H315, H318, H302, H312

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

National Inventory	Status	
Australia - AICS	Y	
Canada - DSL	Y	
Canada - NDSL	N (lithium hydroxystearate; residual oils, petroleum, solvent dewaxed; paraffinic distillate, heavy, solvent-dewaxed (mild); titanium dioxide)	
China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Y	
Japan - ENCS	N (residual oils, petroleum, solvent dewaxed; paraffinic distillate, heavy, solvent-dewaxed (mild))	
Korea - KECI	Y	
New Zealand - NZIoC	Y	
Philippines - PICCS	Y	
USA - TSCA	Y	
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

#### **SECTION 16 OTHER INFORMATION**

#### Full text Risk and Hazard codes

H300	Fatal if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H315)	H315)
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.





H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

#### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
zinc oxide	1314-13-2, 175449-32-8

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. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### 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

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

Part Number MC011533

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