

DLM Wallace

Chemwatch: 14110 Version No: 8.1 Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017 Chemwatch Hazard Alert Code: 3 Issue Date: 23/12/2022

Print Date: 14/04/2023

S.GHS.NZL.EN.E

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

Product Identifier

Product name	Consolidated Alloys Bakers Solderine Paste	
Chemical Name	Not Applicable	
Synonyms	Not Available	
Proper shipping name	CORROSIVE LIQUID, N.O.S. (contains zinc chloride)	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

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

Relevant identified uses Soldering flux in paste form.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	DLM Wallace	
Address	55 Maurice Road, Penrose Auckland 1061 New Zealand	
Telephone	+64 9 622 9100	
Fax	+64 9 622 9119	
Website	www.dlmwallace.co.nz	
Email	enquiries@dlmwallace.co.nz	

Emergency telephone number

Association / Organisation	National Poisons Centre	
Emergency telephone numbers	0800 764 766	
Other emergency telephone numbers	Not Available	

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification ^[1]	Corrosive to Metals Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 2, Hazardous to Terrestrial Vertebrates
Legend:	1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	8.1A, 6.1D (oral), 8.2B, 8.3A, 6.7A, 9.1B, 9.3C

Label elements

Hazard pictogram(s)	P-H		¥_>	

Signal word Danger

Hazard statement(s)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.

H433 Hazardous to terrestrial vertebrates.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P260	Do not breathe mist/vapours/spray.	
P264	Wash all exposed external body areas thoroughly after handling.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P234	Keep only in original packaging.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	

Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501 D

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

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight] Name	
8009-03-8.	50-60	petrolatum
8012-95-1.	10-15	paraffin oils
7646-85-7	10-15	zinc chloride
12125-02-9	<5	ammonium chloride
Legend:	 Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; Classification drawn from C&L * EU IOELVs available 	

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor. In case of burns: Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth. DO NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further injury. DO NOT break blister or remove solidified material. Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain. For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth. DO NOT apply ointments, oils, butter, etc. to a burn under any circumstances. Water may be given in small quantities if the person is conscious. Alcohol is not to be given under any circumstances. Reassure. Treat for shock by keeping the person warm and in a lying position. Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient.

Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 Avoid giving milk or oils. Avoid giving alcohol. For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casuality can comfortably drink. Transport to hospital or doctor without delay. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- + Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective
- bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology] Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically

For acute or short term repeated exposures to strong acids:

- Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
- Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling
- Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise

Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues. INGESTION:

- Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.
- DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury
- Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult. ٠
- Charcoal has no place in acid management.
- Some authors suggest the use of lavage within 1 hour of ingestion.

SKIN:

- Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping.
- Deep second-degree burns may benefit from topical silver sulfadiazine.

FYF

- Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.
- Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury.
- Steroid eye drops should only be administered with the approval of a consulting ophthalmologist).

[Ellenhorn and Barceloux: Medical Toxicology]

- + Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases
- High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

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	ty Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
dvice for firefighters			
	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.		
Fire Fighting	Use fire fighting procedures suitable for surrounding area.		
	Do not approach containers suspected to be hot.		
	Cool fire exposed 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. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit acrid smoke and corrosive fumes. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) hydrogen chloride phosgene other pyrolysis products typical of burning organic material.
	NOTE: Burns with intense heat. Produces melting, flowing, burning liquid and dense acrid black smoke.

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	 Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. Check regularly for spills and leaks. Slippery when spilt. 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	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by all means available, spillage from entering drains or water courses. Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Slippery when spilt.

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

SECTION 7 Handling and storage

Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling discharging or handling operations. Wait 2 minutes after tank filling (for tanks such as those on road tanker vehicles) before opening hatches or manholes. Wait 30 minutes after tank filling (for large storage tanks) before opening hatches or manholes. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. Avoid contact with moisture. Avoid contact with moisture. Vhen handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. DO NOT allow clothing wet with material to stay in contact with skin
Other information	 Store in original containers. Keep containers securely sealed. 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

	DO NOT use aluminium or galvanised containers
	Check regularly for spills and leaks
	Lined metal can, lined metal pail/ can.
Suitable container	Plastic nail

- Polyliner drum.
- Packing as recommended by manufacturer.

Storage incompatibility	 material in contact with inner and outer packages unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic. Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air. Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates. Avoid strong bases. Avoid reaction with oxidising agents
	 Check all containers are clearly labelled and free from leaks. For low viscosity materials Drums and jerricans must be of the non-removable head type. Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.): Removable head packaging; Cans with friction closures and low pressure tubes and cartridges may be used. - Where combination packages are used, and the inner packages are of glass, porcelain or stoneware, there must be sufficient inert cushioning

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	petrolatum	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	(om) - Sampled by a method that does not collect vapour
New Zealand Workplace Exposure Standards (WES)	paraffin oils	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	(om) - Sampled by a method that does not collect vapour
New Zealand Workplace Exposure Standards (WES)	zinc chloride	Zinc chloride fume	1 mg/m3	2 mg/m3	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	ammonium chloride	Ammonium chloride fume	10 mg/m3	20 mg/m3	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3	
petrolatum	140 mg/m3	1,500 mg/m3		8,900 mg/m3	
paraffin oils	140 mg/m3	1,500 mg/m3		8,900 mg/m3	
zinc chloride	2 mg/m3	800 mg/m3		4,800 mg/m3	
ammonium chloride	20 mg/m3	54 mg/m3		330 mg/m3	
Ingredient	Original IDLH		Revised IDLH		
petrolatum	2,500 mg/m3		Not Available		
paraffin oils	2,500 mg/m3		Not Available		
zinc chloride	50 mg/m3		Not Available		
ammonium chloride	Not Available		Not Available		

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly 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 that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. For molten materials: Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material.
Individual protection measures, such as personal protective equipment	
Eye and face protection	 Chemical goggles. Full face shield may be required for supplementary but never for primary protection of eyes. 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.
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 When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. 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
Other protection	 Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent] Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, the employee should undergo decontamination and be required to shower upon removal of the garments and hood. When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower.

Respiratory protection

Type AB-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	AB-AUS P2	-	AB-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AB-AUS / Class 1 P2	-
up to 100 x ES	-	AB-2 P2	AB-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

For molten materials: 76ab-p()

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Pink odourless waxy paste; partly mixes with water.			
Physical state	Liquid	Relative density (Water = 1)	Not Applicable	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	Not Applicable	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Not Applicable	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available	

Vapour pressu	re (kPa)	Not Available	Gas group	Not Available
Solubility i	n water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density ((Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Contact with alkaline material liberates heat
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	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness.			
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Accidental ingestion of the material may be damaging to the health of the individual.			
Skin Contact	The material can produce chemical burns following direct contact with the skin. Irritation and skin reactions are possible with sensitive skin Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition 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	The material can produce chemical burns to the eye following direct cont If applied to the eyes, this material causes severe eye damage.	act. Vapours or mists may be extremely irritating.		
Chronic	It applied to the eyes, this material causes severe eye damage. There is ample evidence that this material can be regarded as being able to cause cancer in humans based on experiments and other information. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to lung, with cough, and inflammation of lung tissue often occurs. Chronic minor exposure to hydrogen chloride (HCI) vapour or fume may cause discolouration or erosion of the teeth, bleeding of the nose and gums; and ulceration of the mucous membranes of the nose. Workers exposed to hydrochloric acid suffered from stomach inflammation and a number of cases of chronic bronchitis (airway inflammation) have also been reported. Repeated or prolonged exposure to dilute solutions of hydrogen chloride may cause skin inflammation. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin. Welding or flame cutting of metals with zinc or zinc dust coatings may result in inhalation of zinc oxide fume; high concentrations of zinc oxide furme may result in "metal furme fever"; also known as "brass chills", an industrial disease of short duration. [I.L.O] Symptoms include malaise, fever, weakness, nausea and may appear quickly if operations occur in enclosed or poorly ventilated areas. Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.			
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Solderine Paste	fume may result in "metal fume fever"; also known as "brass chills", an in fever, weakness, nausea and may appear quickly if operations occur in e Oil may contact the skin or be inhaled. Extended exposure can lead to ec on the soles of the feet. TOXICITY Not Available TOXICITY	dustrial disease of short duration. [I.L.O] Symptoms include malaise, nclosed or poorly ventilated areas. zema, inflammation of hair follicles, pigmentation of the face and warts IRRITATION Not Available IRRITATION		
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Solderine Paste	fume may result in "metal fume fever"; also known as "brass chills", an in fever, weakness, nausea and may appear quickly if operations occur in e Oil may contact the skin or be inhaled. Extended exposure can lead to ec on the soles of the feet. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg ^[1]	dustrial disease of short duration. [I.L.O] Symptoms include malaise, inclosed or poorly ventilated areas. Izema, inflammation of hair follicles, pigmentation of the face and warts IRRITATION Not Available IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1]		
Solderine Paste petrolatum	fume may result in "metal fume fever"; also known as "brass chills", an in fever, weakness, nausea and may appear quickly if operations occur in e Oil may contact the skin or be inhaled. Extended exposure can lead to ec on the soles of the feet. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >5000 mg/kg ^[1]	dustrial disease of short duration. [I.L.O] Symptoms include malaise, nclosed or poorly ventilated areas. zzema, inflammation of hair follicles, pigmentation of the face and warts IRRITATION Not Available IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] IRRITATION		
Solderine Paste petrolatum	fume may result in "metal fume fever"; also known as "brass chills", an in fever, weakness, nausea and may appear quickly if operations occur in e Oil may contact the skin or be inhaled. Extended exposure can lead to ec on the soles of the feet. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >5000 mg/kg ^[1] TOXICITY Inhalation(Rat) LC50: 2062 ppm4h ^[2]	dustrial disease of short duration. [I.L.O] Symptoms include malaise, nclosed or poorly ventilated areas. szema, inflammation of hair follicles, pigmentation of the face and warts IRRITATION Not Available IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Eye (rabbit): 500 mg moderate		
Solderine Paste petrolatum	fume may result in "metal fume fever"; also known as "brass chills", an in fever, weakness, nausea and may appear quickly if operations occur in e Oil may contact the skin or be inhaled. Extended exposure can lead to ec on the soles of the feet. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >5000 mg/kg ^[1] TOXICITY Inhalation(Rat) LC50: 2062 ppm4h ^[2] Oral (Mouse) LD50; 22000 mg/kg ^[2]	dustrial disease of short duration. [I.L.O] Symptoms include malaise, inclosed or poorly ventilated areas. IRRITATION Not Available IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye (rabbit): 500 mg moderate Skin (rabbit): 100 mg/24h mild		

	ΤΟΧΙΟΙΤΥ	IRRITATION		
ammonium chloride	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 100) mg SEVERE	
	Oral (Rat) LD50: 1650 mg/kg ^[2]	Eye (rabbit): 500) mg/24h SEVERE	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances			
PETROLATUM	Dermal (rabbit) TDLo: 100 ml/kg/30D-I Tumorigenic effects. "Hydrocarbon wax" describes a group of solid C20 to C36 paraffinic hydrocarbons which are not absorbed in the gastro-intestinal tract and in small quantity will pass through undigested. Refined waxes are used widely in cosmetic surgery over many years and this demonstrates their low toxicity; many guidelines exist for their safe use. However, occasionally there are reports of adverse effects with these products. Deposits under the skin, referred to as "paraffinoma" have been described, but these are not normally associated with other progressive changes. Long-term toxicity studies indicated that petroleum-derived paraffin and microcrystalline waxes are non-toxic and do not cause cancer.			
PARAFFIN OILS	Equivocal tumorigen by RTECS criteria Paraffin oil (boiling in the kerosene boiling range) can pose certain health hazards, especially if it is inhaled or ingested and also due to repeated or prolonged skin exposure. Inhalation of paraffin oil can irritate the respiratory tract, and cause cough, shortness of breath, and occasionally, lead to hydrocarbon pneumonitis. On the other hand, prolonged skin exposure to this oil can cause skin irritation, which can lead to contact dermatitis, especially in individuals who already have skin disorders or diseases. Ingestion of paraffin oil can cause upset of the intestinal tract. Paraffin oil, which has not been highly refined, is often considered as a carcinogen or cancer causing agent. Therefore, adequate precaution is required, while using paraffin oil. Ideally, liquid paraffin oil should be stored in a cool and well-ventilated place n a tightly dosed container. As some paraffin oil is highly inflammable, be sure to keep it away from any source of heat or ignition and also out of direct sunlight. The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oils inversely related to the degree of processing; Distillate base oils receiving the same degree or extent of processing will have similar toxicities; The potential toxicity of residual base oils independent of the degree of processing the oil receives. There and we shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined doils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mamalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative results, sup			
ZINC CHLORIDE	Mutation DNA Damage Human. Equivocal tumorigenic agent by RTECS criteria. For acid mists, aerosols, vapours Test results suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5. Cells from the respiratory tract have not been examined in this respect. Mucous secretion may protect the cells of the airway from direct exposure to inhaled acidic mists (which also protects the stomach lining from the hydrochloric acid secreted there). The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilla. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function. The material may cause skin irritation after prolonged or repeated exposu			
	disorder is characterized by difficulty breathing, cough ar The material may produce respiratory tract irritation, and The material may cause skin irritation after prolonged or	substance (often particles) and is nd mucus production. result in damage to the lung include	completely reversible after exposure ceases. The ding reduced lung function.	
AMMONIUM CHLORIDE	disorder is characterized by difficulty breathing, cough ar The material may produce respiratory tract irritation, and The material may cause skin irritation after prolonged or	substance (often particles) and is nd mucus production. result in damage to the lung inclu repeated exposure and may produ	completely reversible after exposure ceases. The ding reduced lung function. ice on contact skin redness, swelling, the production of	
AMMONIUM CHLORIDE	disorder is characterized by difficulty breathing, cough ar The material may produce respiratory tract irritation, and The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin. The material may produce severe irritation to the eye cau	substance (often particles) and is nd mucus production. result in damage to the lung inclu repeated exposure and may produ	completely reversible after exposure ceases. The ding reduced lung function. ice on contact skin redness, swelling, the production of	
	disorder is characterized by difficulty breathing, cough ar The material may produce respiratory tract irritation, and The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin. The material may produce severe irritation to the eye cau produce conjunctivitis.	substance (often particles) and is nd mucus production. result in damage to the lung inclue repeated exposure and may produ- using pronounced inflammation. Re	completely reversible after exposure ceases. The ding reduced lung function. Ice on contact skin redness, swelling, the production epeated or prolonged exposure to irritants may	
Acute Toxicity Skin Irritation/Corrosion	disorder is characterized by difficulty breathing, cough ar The material may produce respiratory tract irritation, and The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin. The material may produce severe irritation to the eye cau produce conjunctivitis.	substance (often particles) and is nd mucus production. result in damage to the lung inclue repeated exposure and may produ using pronounced inflammation. Re Carcinogenicity	completely reversible after exposure ceases. The ding reduced lung function. Ice on contact skin redness, swelling, the production epeated or prolonged exposure to irritants may	
Acute Toxicity	disorder is characterized by difficulty breathing, cough ar The material may produce respiratory tract irritation, and The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin. The material may produce severe irritation to the eye cau produce conjunctivitis.	substance (often particles) and is nd mucus production. result in damage to the lung inclue repeated exposure and may produ using pronounced inflammation. Re Carcinogenicity Reproductivity	completely reversible after exposure ceases. The ding reduced lung function. Ice on contact skin redness, swelling, the production epeated or prolonged exposure to irritants may	

Data either not available or does not
 Data available to make classification

SECTION 12 Ecological information

Issue Date: 23/12/2022 Print Date: 14/04/2023

Consolidated Alloys Bakers Solderine Paste

Concellidated Allows Delvare	Endpoint	Test Duration (hr)	Species	Valu	e Sou	urce
Consolidated Alloys Bakers Solderine Paste	Not Available	Not Available	Not Available	Not Avail	Not able Ava	ot ailable
	Endpoint	Test Duration (hr)	Species	Valu	e Sou	ource
petrolatum	Not Available	Not Available	Not Available	Not Avail	Not able Ava	ot ailabl
	Endpoint	Test Duration (hr)	Species	Value	S	Sourc
<i></i>	EC50(ECx)	48h	Crustacea	0.016-0.02	7mg/L 4	
paraffin oils	LC50	96h	Fish	>100mg/L	4	
	EC50	48h	Crustacea	0.016-0.027	7mg/L 4	
	Endpoint	Test Duration (hr)	Species	Value	S	Sourc
	BCF	1680h	Fish	58-116	7	
	NOEC(ECx)	96h	Algae or other aquatic plants	0.05mg/l	1	
zinc chloride	EC50	96h	Algae or other aquatic plants	0.026mg/l	4	
	EC50	72h	Algae or other aquatic plants	Algae or other aquatic plants 0.011mg/L		
	LC50	96h	Fish	0.023-0.03	1mg/l 4	
	EC50	48h	Crustacea	0.011-0.09	4mg/l 4	
	Endpoint	Test Duration (hr)	Species	Value	S	ourc
	EC50	96h	Algae or other aquatic plants	58.476-59.706	mg/L 4	
ammonium chloride	LC50	96h	Fish	0.00216-0.0046mg/l		
ammonium chloride	EC50	72h	Algae or other aquatic plants	>76.6mg/l	4	
	EC50	48h	Crustacea	0.075-0.126m	g/l 4	
	NOEC(ECx)	Not Available	Fish	0.002mg/L	5	

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

- Bioconcentration Data 8. Vendor Data

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.

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the

oxygen transfer between the air and the water

Oils of any kind can cause:

I drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility

▶ lethal effects on fish by coating gill surfaces, preventing respiration

+ asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and

adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation.

Ecotoxicity:

The tolerance of water organisms towards pH margin and variation is diverse. Recommended pH values for test species listed in OECD guidelines are between 6.0 and almost 9. Acute testing with fish showed 96h-LC50 at about pH 3.5

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
zinc chloride	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
zinc chloride	HIGH (BCF = 16000)

Mobility in soil

Ingredient M	Mobility
zinc chloride LC	LOW (KOC = 23.74)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

Containers may still present a chemical hazard/ danger when empty.
 Return to supplier for reuse/ recycling if possible.
 Otherwise:

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
Where possible retain label warnings and SDS and observe all notices pertaining to the product.
 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.
Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus
 Decontaminate empty containers with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required

Marine Pollutant	
HAZCHEM	2X

Land transport (UN)

UN number or ID number	1760		
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (contains zinc chloride)		
Transport hazard class(es)	Class 8 Subsidiary risk Not Applicable		
Packing group	III		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions223; 274Limited quantity5 L		

Air transport (ICAO-IATA / DGR)

UN number	1760		
UN proper shipping name	Corrosive liquid, n.o.s. * (contains zinc chloride)		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	8 Not Applicable 8L	
Packing group	II		
Environmental hazard	Environmentally hazardous		
Special precautions for user		Qty / Pack Packing Instructions	A3 A803 856 60 L 852 5 L Y841 1 L

Sea transport (IMDG-Code / GGVSee)

UN number	1760		
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (contains zinc chloride)		
Transport hazard class(es)	IMDG Class 8 IMDG Subrisk Not Applicable		
Packing group	II		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS NumberF-A, S-BSpecial provisions223 274Limited Quantities5 L		

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
petrolatum	Not Available
paraffin oils	Not Available
zinc chloride	Not Available
ammonium chloride	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
petrolatum	Not Available
paraffin oils	Not Available
zinc chloride	Not Available
ammonium chloride	Not Available

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
Not Applicable	Not Applicable

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

petrolatum is found on the following regulatory lists		
Chemical Footprint Project - Chemicals of High Concern List	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	of Chemicals	
Monographs - Not Classified as Carcinogenic	New Zealand Inventory of Chemicals (NZIoC)	
New Zealand Approved Hazardous Substances with controls	New Zealand Workplace Exposure Standards (WES)	
paraffin oils is found on the following regulatory lists		
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	New Zealand Inventory of Chemicals (NZIoC)	
Monographs - Not Classified as Carcinogenic	New Zealand Workplace Exposure Standards (WES)	
New Zealand Approved Hazardous Substances with controls		
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		
zinc chloride is found on the following regulatory lists		
New Zealand Approved Hazardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data		
ammonium chloride is found on the following regulatory lists		
FEI Equine Prohibited Substances List - Banned Substances	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification	
FEI Equine Prohibited Substances List (EPSL)	of Chemicals - Classification Data	
New Zealand Approved Hazardous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Workplace Exposure Standards (WES)	
Hazardous Substance Location		

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class

Hazard Class	Quantity (Compliance Certificate)	Quantity (Compliance Certificate - Farms >4 ha)
8.2B	250 kg or 250 L	3500 kg or 3500 L

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
8.2B	120	1	3	

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (petrolatum; paraffin oils; zinc chloride; ammonium chloride)	
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	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
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	23/12/2022
Initial Date	27/08/2004

SDS Version Summary

Version	Date of Update	Sections Updated	
7.1	30/12/2020	Classification change due to full database hazard calculation/update.	
8.1	23/12/2022	Classification review due to GHS Revision change.	

Other information

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

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

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit₀ IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value

BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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