

Novachem Pty Ltd

Part Number: IC-MCA-02-1 Version No: 1.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 0

Issue Date: **16/11/2022** Print Date: **16/11/2022** S.GHS.AUS.EN

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

Product Identifier

Product name	Multi-Component Cation Mix 2
Synonyms	Not Available
Other means of identification	IC-MCA-02-1

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

Relevant identified uses	Laboratory Chemical Reference Material
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	Novachem Pty Ltd	Novachem Pty Ltd	
Address 25 Crissane Road, Heidelberg West Victoria 3081 Australia		25 Crissane Road, Heidelberg West Victoria 3081 Australia	
Telephone	+61384151255	+61384151255	
Fax	+61386250088	+61386250088	
Website	www.novachem.com.au	www.novachem.com.au	
Email	novachem@novachem.com.au	novachem@novachem.com.au	

Emergency telephone number

Association / Organisation	Victorian Poisons Information Centre	Victorian Poisons Information Centre
Emergency telephone numbers	13 11 26	13 11 26
Other emergency telephone numbers	Not Available	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Chemwatch Hazard Ratings

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

Poisons Schedule	Not Applicable
Classification ^[1]	Not Applicable

Label elements	
Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
471-34-1	0.025	calcium carbonate
12125-02-9	0.03	ammonium chloride
13446-18-9	0.106	magnesium nitrate
7757-79-1	0.026	potassium nitrate
7631-99-4	0.037	sodium nitrate
554-13-2	0.053	lithium carbonate
7697-37-2	<0.05	nitric acid
7732-18-5	>99.5	water
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. 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 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.
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	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

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

Special hazards arising from the substrate or mixture

HAZCHEM

Not Applicable

-		
Fire Incompatibility None known.		
Advice for firefighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. 	
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: metal oxides 	

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 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. 		 Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
	Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required.

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

SECTION 7 Handling and storage

Precautions for safe handling	
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.
Other information	

Conditions for safe storage, including any incompatibilities

Suitable container	 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. 				
Storage incompatibility Avoid contamination of water, foodstuffs, feed or seed. None known					
•					



X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	calcium carbonate	Calcium carbonate	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	ammonium chloride	Ammonium chloride (fume)	10 mg/m3	20 mg/m3	Not Available	Not Available
Australia Exposure Standards	nitric acid	Nitric acid	2 ppm / 5.2 mg/m3	10 mg/m3 / 4 ppm	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
calcium carbonate	45 mg/m3	210 mg/m3	1,300 mg/m3
ammonium chloride	20 mg/m3	54 mg/m3	330 mg/m3
magnesium nitrate	30 mg/m3	330 mg/m3	2,000 mg/m3
magnesium nitrate	16 mg/m3	180 mg/m3	1,100 mg/m3
potassium nitrate	9 mg/m3	100 mg/m3	600 mg/m3

Ingredient	TEEL-1	TEEL-2		TEEL-3
sodium nitrate	4.1 mg/m3	45 mg/m3		270 mg/m3
lithium carbonate	3.1 mg/m3	34 mg/m3		210 mg/m3
nitric acid	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
calcium carbonate	Not Available		Not Available	
ammonium chloride	Not Available		Not Available	
magnesium nitrate	Not Available		Not Available	
potassium nitrate	Not Available		Not Available	
sodium nitrate	Not Available		Not Available	
lithium carbonate	Not Available		Not Available	
nitric acid	25 ppm		Not Available	
water	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
magnesium nitrate	E	≤ 0.01 mg/m³		
potassium nitrate	E	≤ 0.01 mg/m³		
sodium nitrate	E	≤ 0.01 mg/m³		
lithium carbonate	E	E ≤ 0.01 mg/m ³		
Notes:	Occupational exposure banding is a process of assigning	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the		

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

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.
Personal protection	
Eye and face protection	 Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves. 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.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Barrier cream. • Eyewash unit.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Multi-Component Cation Mix 2

Material	СРІ
BUTYL	A
NEOPRENE	A
HYPALON	С
NATURAL RUBBER	С

NATURAL+NEOPRENE	c
NEOPRENE/NATURAL	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С
VITON	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Liquid	Relative density (Water = 1)	1
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	0	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	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	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product

Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.		
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	Long-term exposure to the product is not thought to produce models); nevertheless exposure by all routes should be mining the structure of the	chronic effects adverse to the health (as classified by EC Directives using animal nised as a matter of course.	
	τοχιςιτγ	IRRITATION	
Multi-Component Cation Mix 2	Not Available	Not Available	
	τοχιςιτγ	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 0.75 mg/24h - SEVERE	
calcium carbonate	Inhalation(Rat) LC50: >3 mg/l4h ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50; >2000 mg/kg ^[1]	Skin (rabbit): 500 mg/24h-moderate	
		Skin: no adverse effect observed (not irritating) ^[1]	
	ΤΟΧΙCITY	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	
	ΤΟΧΙCITY	IRRITATION	
magnesium nitrate	Oral (Rat) LD50; 5440 mg/kg ^[2]	Eye (rabbit): 500 mg/24h - mild	
magnesium mitate		Skin (rabbit): 500 mg/24h - mild	
		IRRITATION Not Available	
potassium nitrate	dermal (rat) LD50: >5000 mg/kg ^[1]		
	Inhalation(Rat) LC50: >0.527 mg/l4h ^[1] Oral (Rabbit) LD50; 1901 mg/kg ^[2]		
n Para Marta		IRRITATION Not Available	
sodium nitrate	dermal (rat) LD50: >5000 mg/kg ^[1] Oral (Rat) LD50: 1267 mg/kg ^[2]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
lithium carbonate	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit) : Moderate *	
intinum carbonate	Inhalation(Rat) LC50: >0.8 mg/L4h ^[2]	Skin (rabbit) : Mild *	
	Oral (Rat) LD50; 525 mg/kg ^[2]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
nitric acid	Inhalation(Rat) LC50: 0.13 mg/L4h ^[2]	Eye: adverse effect observed (irritating) ^[1]	
		Skin: adverse effect observed (corrosive) ^[1]	
	τοχιςιτγ	IRRITATION	
water	Oral (Rat) LD50; >90000 mg/kg ^[2]	Not Available	
Legend:	Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Effe	s - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise ct of chemical Substances	
CALCIUM CARBONATE	No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.		
MAGNESIUM NITRATE	Magnesium nitrate heaxahydrate is a methaemoglobin-forming agent which if inhaled or ingested in high enough concentrations may cause fatigue, headache, dizziness. (Source: I.L.O. Encyclopaedia) The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
SODIUM NITRATE	Laboratory (in vitro) and animal studies show, exposure to th producing mutation.	e material may result in a possible risk of irreversible effects, with the possibility of	
LITHIUM CARBONATE	Lacrimation, altered sleep times, hallucinations, distorted perception, toxic psychosis, excitement, ataxia, respiratory depression, allergic dematitis (after sytemic administration), foetoxicity and foetolethality and specific development abnormalities recorded. Non-sensitising guinea pig * FMC SDS Goitrogenic: Goitrogenic:		

	 enlargement of the thyroid (a goitre). Goitrogens include: Vitexin, a flavonoid, which inhibits thyroid peroxidase, contributing to goitre Thiocyanate and perchlorate, which decrease iodide uptake by competitive inhibitio pituitary gland Lithium, which inhibits thyroid hormone release Certain foods, such as soy and millet (containing vitexins) and vegetables in the ge cabbage, cauliflower and horseradish). Caffeine (found in coffee, tea, cola and chocolate), which acts on thyroid function at The material may trigger oculogyric crisis. The term "oculogyric" refers to the bilatera Initial symptoms include restlessness, agitation, malaise, or a fixed stare. Then come sustained upward deviation of the eyes. In addition, the eyes may converge, deviate Oral (?) LD50: 50-500 mg/kg * [Various Manufacturers] 	nus Brassica (which includes broccoli, Brussels sprouts, s a suppressant. I elevation of the visual gaze. s the more characteristically described extreme and	
NITRIC ACID	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 produce respiratory tract irritation, and result in damage to the lung including reduced lung function. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.		
WATER	No significant acute toxicological data identified in literature search.		
CALCIUM CARBONATE & SODIUM NITRATE & LITHIUM CARBONATE & NITRIC ACID	Asthma-like symptoms may continue for months or even years after exposure to the known as reactive airways dysfunction syndrome (RADS) which can occur after export criteria for diagnosing RADS include the absence of previous airways disease in a number asthma-like symptoms within minutes to hours of a documented exposure to the irritra airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity or lymphocytic inflammation, without eosinophilia.	osure to high levels of highly irritating compound. Main on-atopic individual, with sudden onset of persistent ant. Other criteria for diagnosis of RADS include a reversible	
CALCIUM CARBONATE & AMMONIUM CHLORIDE & NITRIC ACID	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
CALCIUM CARBONATE & MAGNESIUM NITRATE	The material may cause skin irritation after prolonged or repeated exposure and may vesicles, scaling and thickening of the skin.	produce on contact skin redness, swelling, the production of	
Acute Toxicity	× Carcinogen	icity 🗙	
Skin Irritation/Corrosion	× Reproduct	ivity 🗙	
Serious Eye Damage/Irritation	× STOT - Single Expo	sure 🗙	
Respiratory or Skin sensitisation	× STOT - Repeated Expo	sure X	
Mutagenicity	× Aspiration Ha	zard 🗙	
	Legend: 🗙 – Data e	either not available or does not fill the criteria for classification	

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

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species		Value	Source
Aulti-Component Cation Mix 2	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
	NOEC(ECx)	1h	Fish		4-320mg/l	4
calcium carbonate	EC50	72h	Algae or other aquatic plants		>14mg/l	2
	LC50	96h	Fish		>165200mg/L	4
	Endpoint	Test Duration (hr)	Species	Valu	le	Source
	EC50	72h	Algae or other aquatic plants	>76.	.6mg/l	4
	EC50	48h	Crustacea	0.07	'5-0.126mg/l	4
ammonium chloride	NOEC(ECx)	Not Available	Fish	0.00	2mg/L	5
	LC50	96h	Fish	0.14	mg/l	4
	EC50	96h	Algae or other aquatic plants	58.4	76-59.706mg/L	4
	Endpoint	Test Duration (hr)	Species		Value	Source
magnesium nitrate	EC50(ECx)	24h	Crustacea		6075mg/L	5
	Endpoint	Test Duration (hr)	Species		Value	Sourc
potassium nitrate	NOEC(ECx)	144h	Fish		0.1mg/l	4
	EC50	48h	Crustacea		490mg/l	2
	LC50	96h	Fish		>100mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
sodium nitrate	NOEC(ECx)	1056h	Algae or other aquatic plants		0.2mg/l	4

	EC50	48h	Crustacea	3581mg/l	2
	LC50	96h	Fish	7.1mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	48h	Crustacea	33.2mg/l	Not Available
lithium carbonate	EC50	72h	Algae or other aquatic plants	>400mg/l	2
ittiluin carbonate	EC50	48h	Crustacea	33.2mg/l	Not Available
	LC50	96h	Fish	30.3mg/l	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	96h	Crustacea	39mg/l	2
nitric acid	EC50	48h	Crustacea	490mg/l	2
	LC50	96h	Fish	102.24mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available
I			ered Substances - Ecotoxicological Informati	· · · · · · · · · · · · · · · · · · ·	

For Metal:

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

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

Aquatic/Terrestrial Fate: When released to dry soil, most metals will exhibit limited mobility and remain in the upper layer; some will leach locally into ground water and/ or surface water ecosystems when soaked by rain or melt ice. A metal ion is considered infinitely persistent because it cannot degrade further.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
potassium nitrate	LOW	LOW
sodium nitrate	LOW	LOW
lithium carbonate	LOW	LOW
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
potassium nitrate	LOW (LogKOW = 0.209)
sodium nitrate	LOW (LogKOW = 0.209)
lithium carbonate	LOW (LogKOW = -0.4605)

Mobility in soil

Ingredient	Mobility
potassium nitrate	LOW (KOC = 14.3)
sodium nitrate	LOW (KOC = 14.3)
lithium carbonate	HIGH (KOC = 1)

SECTION 13 Disposal considerations

Vaste treatment methods Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. D 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 sever 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. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed
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	apparatus (after admixture with suitable combustible material). Decontaminate empty containers.
SECTION 14 Transport infor	mation

Marine Pollutant NO HAZCHEM Not Applicable

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

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

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

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

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

Product name	Group
calcium carbonate	Not Available
ammonium chloride	Not Available
magnesium nitrate	Not Available
potassium nitrate	Not Available
sodium nitrate	Not Available
lithium carbonate	Not Available
nitric acid	Not Available
water	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
calcium carbonate	Not Available
ammonium chloride	Not Available
magnesium nitrate	Not Available
potassium nitrate	Not Available
sodium nitrate	Not Available
lithium carbonate	Not Available
nitric acid	Not Available
water	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture calcium carbonate is found on the following regulatory lists Australian Inventory of Industrial Chemicals (AIIC) International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS) ammonium chloride is found on the following regulatory lists Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals FEI Equine Prohibited Substances List - Banned Substances Australian Inventory of Industrial Chemicals (AIIC) FEI Equine Prohibited Substances List (EPSL) magnesium nitrate is found on the following regulatory lists Australian Inventory of Industrial Chemicals (AIIC) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2A: Probably carcinogenic to humans Monographs potassium nitrate is found on the following regulatory lists International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Australian Inventory of Industrial Chemicals (AIIC) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2A: Probably carcinogenic to humans Monographs sodium nitrate is found on the following regulatory lists Australian Inventory of Industrial Chemicals (AIIC) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2A: Probably carcinogenic to humans Monographs lithium carbonate is found on the following regulatory lists Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Chemical Footprint Project - Chemicals of High Concern List Australian Inventory of Industrial Chemicals (AIIC)

nitric acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

water is found on the following regulatory lists Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (ammonium chloride; magnesium nitrate; potassium nitrate; sodium nitrate; lithium carbonate; nitric acid; water)
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	16/11/2022
Initial Date	16/11/2022

Other information

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

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

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer

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

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