

# The Pops Group Pty Ltd

Chemwatch: **7975-80** Version No: **2.1** 

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

# Chemwatch Hazard Alert Code: 2

Initial Date: 13/10/2025 Revision Date: 13/10/2025 Print Date: 13/10/2025 L.GHS.AUS.EN.E

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

### **Product Identifier**

Product name	MineralX
Chemical Name	Not Applicable
Synonyms	Not Available
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 Swimming Pool Salt. Use according to manufacturers directions. Use according to manufacturer's directions.

# Details of the manufacturer or importer of the safety data sheet

Registered company name	The Pops Group Pty Ltd	
Address	10-12 Cairns Street, Loganholme QLD 4129 Australia	
Telephone	(07) 3209 7884	
Fax	(07) 3209 8635	
Website	www.poolpro.com.au	
Email	office@poolpro.com.au	

# Emergency telephone number

Association / Organisation	IXOM
Emergency telephone number(s)	+61 1800 033 111
Other emergency telephone number(s)	+61 03 9663 2130

# **SECTION 2 Hazards identification**

### Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HClS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

### Label elements

Hazard pictogram(s)



Signal word

Warning

Initial Date: 13/10/2025 Revision Date: 13/10/2025

Print Date: 13/10/2025

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary statement(s) Prevention

• • • • • • • • • • • • • • • • • • • •		
P271	P271 Use only outdoors or in a well-ventilated area.	
P261 Avoid breathing dust/fumes.  P280 Wear protective gloves, protective clothing, eye protection and face protection.		
		P264

### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

### Precautionary statement(s) Storage

P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

### Precautionary statement(s) Disposal

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

No further product hazard information.

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

### Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
7647-14-5	<70	sodium chloride
7786-30-3	<70	magnesium chloride
Not Available	balance Ingredients determined not to be hazardous	
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 the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.		
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.		
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>		
Ingestion	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> </ul>		

SDS should be provided. Further action will be the responsibility of the medical specialist.

# • If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

▶ INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (headdown position, if possible) to maintain open airway and prevent aspiration.

If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Initial Date: 13/10/2025 Revision Date: 13/10/2025

Print Date: 13/10/2025

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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

### BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

### ADVANCED TREATMENT

- · Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Positive-pressure ventilation using a bag-valve mask might be of use
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

Magnesium is present in the blood, as a normal constituent, at concentrations between 1.6 to 2.2 meq/L. Some 30% is plasma bound. At serum magnesium levels of 3-4 meq/L, signs of CNS depression, loss of reflexes, muscular tone and power, and bradycardia occur. Cardiac arrest (sometimes fatal) and/or respiratory paralysis can occur at plasma levels of 10-15 meq/L. For acute or short term repeated exposures to magnesium:

- Symptomatic hypermagnesaemia appears rarely in the absence of intestinal or renal disease.
- ▶ Elevated magnesium levels may cause hypocalcaemia because of decreased parathyroid hormone activity and decreased end-organ responsiveness.
- Patients with severe hypermagnesemia may develop sudden respiratory arrest and must be watched closely for apnoea.
- ▶ Use fluids, then vasopressors for hypotension. Frequently hypotension responds to calcium administration.
- Induce emesis or administer lavage if patient presents within 4 hours of ingestion. Use sodium cathartics, with caution, in presence of cardiac or renal failure.
- Activated charcoal is not useful.
- Calcium is an antagonist of magnesium action and is an effective antidote when serum levels exceed 5 meg/L and the patient exhibits symptoms. The adult dose of calcium gluconate is 10 ml of a 10% solution over several minutes. [Ellenhorn and Barceloux: Medical Toxicology]

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

Fire Incompatibility None known Advice for firefighters 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 Fighting 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 Equipment should be thoroughly decontaminated after use. Non combustible Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: Fire/Explosion Hazard hydrogen chloride May emit poisonous fumes. May emit corrosive fumes

# **SECTION 6 Accidental release measures**

HAZCHEM

### Personal precautions, protective equipment and emergency procedures

Not Applicable

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

### Minor Spills

- ▶ Remove all ignition sources
- Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.

Initial Date: 13/10/2025 Revision Date: 13/10/2025 Print Date: 13/10/2025

 Use dry clean up procedures and avoid generating dust. Place in a suitable, labelled container for waste disposal. Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. ▶ Prevent, by any means available, spillage from entering drains or water courses. **Major Spills**  Recover product wherever possible. • IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services.

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

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

# Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials. Safe handling
  - When handling, DO NOT eat, drink or smoke
  - Keep containers securely sealed when not in use.
  - Avoid physical damage to containers.
  - Always wash hands with soap and water after handling.
  - Work clothes should be laundered separately. Launder contaminated clothing before re-use.
  - Use good occupational work practice.
  - Observe manufacturer's storage and handling recommendations contained within this SDS.
  - Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

# Other information

- Store in original containers. Keep containers securely sealed.
- Store in a cool, dry area protected from environmental extremes.
- 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.

### For major quantities:

- Consider storage in bunded areas ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).
- Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.

## Conditions for safe storage, including any incompatibilities

### Suitable container

- Glass container is suitable for laboratory quantities
- Polyethylene or polypropylene container
- ▶ Check all containers are clearly labelled and free from leaks.

### Storage incompatibility

Inorganic alkaline earth metal derivative. Derivative of very electropositive metal.

# SECTION 8 Exposure controls / personal protection

### Control parameters

### Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Not Available

Ingredient	Original IDLH	Revised IDLH
sodium chloride	Not Available	Not Available
magnesium chloride	Not Available	Not Available

### MATERIAL DATA

### **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.

- Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction
- If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of:
- (a): particle dust respirators, if necessary, combined with an absorption cartridge;
- (b): filter respirators with absorption cartridge or canister of the right type;
- (c): fresh-air hoods or masks.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant

Chemwatch: **7975-80**Version No: **2.1** 

Initial Date: 13/10/2025 Revision Date: 13/10/2025 Print Date: 13/10/2025

MineralX

Page 5 of 11

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
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

# Individual protection measures, such as personal protective equipment











# Eye and face protection

### Safety glasses with side shields

- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

### Skin protection

See Hand protection below

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.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- · chemical resistance of glove material,
- · glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- · Excellent when breakthrough time > 480 min
- · Good when breakthrough time > 20 min
- Fair when breakthrough time < 20 min
- Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene.
- nitrile rubber.
- butyl rubber.
- fluorocaoutchouc.
- polyvinyl chloride

Gloves should be examined for wear and/ or degradation constantly.

# Body protection

Hands/feet protection

# See Other protection below

### Other protection

- Overalls.
- P.V.C apron.
- Barrier cream.Skin cleansing cream.
- Eye wash unit.

Initial Date: 13/10/2025 Revision Date: 13/10/2025 Print Date: 13/10/2025

# MineralX

### 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:

MineralX

Material	СРІ
NATURAL RUBBER	Α
NATURAL+NEOPRENE	Α
NITRILE	Α

\* 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.

### Ansell Glove Selection

Glove — In order of recommendation
AlphaTec 02-100
AlphaTec® 15-554
AlphaTec® Solvex® 37-185
AlphaTec® 38-612
AlphaTec® 58-008
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® 58-735
AlphaTec® 79-700
AlphaTec® Solvex® 37-675

The suggested gloves for use should be confirmed with the glove supplier.

### Respiratory protection

Type -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	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	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 program.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- Use approved positive flow mask if significant quantities of dust becomes airborne.
   Try to avoid creating dust conditions.

Class P2 particulate filters are used for protection against mechanically and thermally generated particulates or both.

P2 is a respiratory filter rating under various international standards, Filters at least 94% of airborne particles

Suitable for:

- · Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.
- Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.
- · Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

# **SECTION 9 Physical and chemical properties**

### Information on basic physical and chemical properties **Appearance** White powder with no odour; soluble in water. White Physical state Divided Solid Relative density (Water = 1) Not Available Partition coefficient n-octanol Odour No Odour Not Available / water Auto-ignition temperature Odour threshold Not Available Not Applicable (°C) Decomposition pH (as supplied) Not Applicable Not Available temperature (°C) Melting point / freezing point Not Available Viscosity (cSt) Not Applicable Initial boiling point and Not Applicable Molecular weight (g/mol) Not Applicable boiling range (°C) Flash point (°C) Not Applicable Taste Not Available **Evaporation rate** Not Available **Explosive properties** Not Available Flammability Not Applicable Oxidising properties Not Available Surface Tension (dyn/cm or Upper Explosive Limit (%) Not Applicable Not Applicable Lower Explosive Limit (%) Not Applicable Volatile Component (%vol) Not Available Vapour pressure (kPa) Not Applicable Gas group Not Available Solubility in water Miscible pH as a solution (1%) 6.7-7.3 (slurry) Vapour density (Air = 1) Not Available VOC g/L Not Available Heat of Combustion (kJ/g) Not Available Ignition Distance (cm) Not Available Flame Height (cm) Flame Duration (s) Not Available Not Available **Enclosed Space Ignition Enclosed Space Ignition** Not Available Not Available Deflagration Density (g/m3) Time Equivalent (s/m3)

Page **7** of **11** 

**MineralX** 

Initial Date: 13/10/2025 Revision Date: 13/10/2025

Print Date: **13/10/2025** 

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
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>
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**

a) Acute Toxicity	Based on available data, the classification criteria are not met.
b) Skin Irritation/Corrosion	There is sufficient evidence to classify this material as skin corrosive or irritating.
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating
d) Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.
e) Mutagenicity	Based on available data, the classification criteria are not met.
f) Carcinogenicity	Based on available data, the classification criteria are not met.
g) Reproductivity	Based on available data, the classification criteria are not met.
h) STOT - Single Exposure	There is sufficient evidence to classify this material as toxic to specific organs through single exposure
STOT - Repeated Exposure	Based on available data, the classification criteria are not met.
j) Aspiration Hazard	Based on available data, the classification criteria are not met.
Inhaled	Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.  Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lac of coordination and vertigo.  Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.  If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.  Magnesium salts are generally absorbed so slowly that oral administration causes few toxic effects with purging being the most significant. evacuation fails due to bowel obstruction or atony, mucosal irritation and absorption may result.  Side effects of magnesium salts include upset stomach, dry mouth, dry nose and dry throat, drowsiness, nausea, heartburn and thickening the mucous in the throat and nose.  Systemically the magnesium ion produces electrolyte imbalance, central nervous system depression, neurological and cardiac involvemen reflex abolition and death from respiratory paralysis. These effects are rare in the absence of intestinal or renal disorders.  Early signs and symptoms of magnesium intoxication include nausea, vomiting, malaise and confusion. Deep tendon reflexes may be diminished. central nervous system depression may progress to coma and paralysis of the release of acetylcholine at myoneuronal junctions. Central nervous system depression may be compounded by depressed function of the respiratory musculature. Hypotension may also ensue as a result of peripheral vasodilation and/ or decreased cardiac output secondary to conduction defects. Bradycardia is common, leading to eventual arrest in diastole.  May produce laxative effects.
Skin Contact	The material produces mild skin irritation; evidence exists, or practical experience predicts, that the material either  • produces mild inflammation of the skin in a substantial number of individuals following direct contact, and/or  • produces significant, but mild, inflammation when applied to the healthy intact skin of animals (for up to four hours), such inflammation being present twenty-four hours or more after the end of the exposure period.  Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.  Open cuts, abraded or irritated skin should not be exposed to this material. Solution of material in moisture on the skin, or perspiration, may increase irritant effects.  Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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.
Еуе	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or more significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctival (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.  A case of chronic abuse of magnesium citrate (a mild purgative), by a 62 year-old woman, has been reported. Symptoms of abuse include lethargy and severe refractory hypotension. Pathology revealed extreme hypermagnesaemia [6.25 mmol per litre]. She also was found to have a perforated duodenal ulcer. She died after peritoneal dialysis (which reduced serum-magnesium and reduced hypotension.  A patient with normal kidney function developed symptomatic hypermagnesaemia with respiratory arrest and bradycardia after receiving 90

A patient with normal kidney function developed symptomatic hypermagnesaemia with respiratory arrest and bradycardia after receiving 90 grams of magnesium sulfate over 18 hours.

When magnesium sulfate was given to pregnant rats, a sharp reduction of both the number and the weight of the offspring was observed.

Initial Date: 13/10/2025 Revision Date: 13/10/2025

Print Date: 13/10/2025

IV	тохісіту	IRRITATION	
MineralX	Not Available	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >10000 mg/kg <sup>[1]</sup>	Eye (Rodent - r	abbit): 100mg/24H - Moderate
	Inhalation (Rat) LC50: >10.5 mg/l4h <sup>[1]</sup>	Eye (Rodent - r	abbit): 10mg - Moderate
sodium chloride	Oral (Rat) LD50: 3000 mg/kg <sup>[2]</sup>	Eye: adverse e	ffect observed (irritating) <sup>[1]</sup>
		Skin (Rodent -	rabbit): 500mg/24H - Mild
		Skin: no advers	e effect observed (not irritating) <sup>[1]</sup>
	тохісіту	IRRITATION	
magnesium chloride	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no advers	e effect observed (not irritating) <sup>[1]</sup>
	Oral (Rat) LD50: 2800 mg/kg <sup>[2]</sup>	Skin: no advers	se effect observed (not irritating) <sup>[1]</sup>
Legend:	Value obtained from Europe ECHA Registered Substa specified data extracted from RTECS - Register of Toxic		btained from manufacturer's SDS. Unless otherw.
Legend:	specified data extracted from RTECS - Register of Toxic  The material may produce moderate eye irritation leading conjunctivitis. The material may cause skin irritation after prolonged or	Effect of chemical Substances g to inflammation. Repeated or repeated exposure and may pro	prolonged exposure to irritants may produce
•	specified data extracted from RTECS - Register of Toxic  The material may produce moderate eye irritation leading conjunctivitis.	Effect of chemical Substances  g to inflammation. Repeated or prepeated exposure and may prove years after exposure to the maine (RADS) which can occur after eabsence of previous airways ours of a documented exposure to moderate to severe bronchial lut eosinophilia. RADS (or asthmiration of exposure to the irritating severe pronchiating the concentrations of irritating severe pronchiating severe pronchi	prolonged exposure to irritants may produce oduce on contact skin redness, swelling, the terial ends. This may be due to a non-allergic er exposure to high levels of highly irritating disease in a non-atopic individual, with sudden one of the irritant. Other criteria for diagnosis of RADS hyperreactivity on methacholine challenge testing, a) following an irritating inhalation is an infrequenting substance. On the other hand, industrial bronch ubstance (often particles) and is completely
SODIUM CHLORIDE  SODIUM CHLORIDE &	The material may produce moderate eye irritation leading conjunctivitis.  The material may cause skin irritation after prolonged or production of vesicles, scaling and thickening of the skin Asthma-like symptoms may continue for months or even condition known as reactive airways dysfunction syndror compound. Main criteria for diagnosing RADS include the of persistent asthma-like symptoms within minutes to how include a reversible airflow pattern on lung function tests and the lack of minimal lymphocytic inflammation, without disorder with rates related to the concentration of and during a disorder that occurs as a result of exposure due to he	Effect of chemical Substances  g to inflammation. Repeated or prepeated exposure and may prove years after exposure to the maine (RADS) which can occur after eabsence of previous airways ours of a documented exposure to moderate to severe bronchial lut eosinophilia. RADS (or asthmiration of exposure to the irritating severe pronchiating the concentrations of irritating severe pronchiating severe pronchi	prolonged exposure to irritants may produce oduce on contact skin redness, swelling, the terial ends. This may be due to a non-allergic er exposure to high levels of highly irritating disease in a non-atopic individual, with sudden one of the irritant. Other criteria for diagnosis of RADS hyperreactivity on methacholine challenge testing, a) following an irritating inhalation is an infrequent g substance. On the other hand, industrial bronch ubstance (often particles) and is completely
SODIUM CHLORIDE  SODIUM CHLORIDE & MAGNESIUM CHLORIDE	The material may produce moderate eye irritation leading conjunctivitis.  The material may cause skin irritation after prolonged or production of vesicles, scaling and thickening of the skin Asthma-like symptoms may continue for months or even condition known as reactive airways dysfunction syndror compound. Main criteria for diagnosing RADS include the of persistent asthma-like symptoms within minutes to hold include a reversible airflow pattern on lung function tests and the lack of minimal lymphocytic inflammation, without disorder with rates related to the concentration of and duis a disorder that occurs as a result of exposure due to he reversible after exposure ceases. The disorder is characteristics.	Effect of chemical Substances g to inflammation. Repeated or repeated exposure and may pro- years after exposure to the mat ne (RADS) which can occur afte e absence of previous airways ours of a documented exposure t , moderate to severe bronchial it at eosinophilia. RADS (or asthmuration of exposure to the irritatin igh concentrations of irritating si terized by difficulty breathing, or	prolonged exposure to irritants may produce oduce on contact skin redness, swelling, the terial ends. This may be due to a non-allergic er exposure to high levels of highly irritating disease in a non-atopic individual, with sudden one of the irritant. Other criteria for diagnosis of RADS hyperreactivity on methacholine challenge testing, a) following an irritating inhalation is an infrequent ing substance. On the other hand, industrial bronch ubstance (often particles) and is completely bugh and mucus production.
SODIUM CHLORIDE  SODIUM CHLORIDE & MAGNESIUM CHLORIDE  Acute Toxicity	The material may produce moderate eye irritation leading conjunctivities.  The material may cause skin irritation after prolonged or production of vesicles, scaling and thickening of the skin Asthma-like symptoms may continue for months or even condition known as reactive airways dysfunction syndror compound. Main criteria for diagnosing RADS include the of persistent asthma-like symptoms within minutes to how include a reversible airflow pattern on lung function tests and the lack of minimal lymphocytic inflammation, without disorder with rates related to the concentration of and duries a disorder that occurs as a result of exposure due to he reversible after exposure ceases. The disorder is characteristic materials and the disorder is characteristic.	Effect of chemical Substances g to inflammation. Repeated or repeated exposure and may pro- years after exposure to the mat me (RADS) which can occur afte e absence of previous airways o urs of a documented exposure t , moderate to severe bronchial l at eosinophilla. RADS (or asthm irration of exposure to the irritating igh concentrations of irritating si terized by difficulty breathing, of  Carcinogenicity	prolonged exposure to irritants may produce oduce on contact skin redness, swelling, the terial ends. This may be due to a non-allergic er exposure to high levels of highly irritating disease in a non-atopic individual, with sudden one of the irritant. Other criteria for diagnosis of RADS hyperreactivity on methacholine challenge testing, a) following an irritating inhalation is an infrequent ng substance. On the other hand, industrial bronch ubstance (often particles) and is completely ough and mucus production.
SODIUM CHLORIDE & MAGNESIUM CHLORIDE  Acute Toxicity Skin Irritation/Corrosion Serious Eye	The material may produce moderate eye irritation leading conjunctivitis.  The material may cause skin irritation after prolonged or production of vesicles, scaling and thickening of the skin Asthma-like symptoms may continue for months or even condition known as reactive airways dysfunction syndror compound. Main criteria for diagnosing RADS include the of persistent asthma-like symptoms within minutes to ho include a reversible airflow pattern on lung function tests and the lack of minimal lymphocytic inflammation, without disorder with rates related to the concentration of and duis a disorder that occurs as a result of exposure due to he reversible after exposure ceases. The disorder is characteristic of the concentration of the con	Effect of chemical Substances g to inflammation. Repeated or repeated exposure and may pro- years after exposure to the man ne (RADS) which can occur afte e absence of previous airways or urs of a documented exposure to moderate to severe bronchial at eosinophilia. RADS (or asthmiration of exposure to the irritating igh concentrations of irritating si terized by difficulty breathing, co  Carcinogenicity  Reproductivity	prolonged exposure to irritants may produce oduce on contact skin redness, swelling, the derial ends. This may be due to a non-allergic er exposure to high levels of highly irritating disease in a non-atopic individual, with sudden one on the irritant. Other criteria for diagnosis of RADS hyperreactivity on methacholine challenge testing, a) following an irritating inhalation is an infrequenting substance. On the other hand, industrial bronch ubstance (often particles) and is completely bugh and mucus production.

Legend:

X − Data either not available or does not fill the criteria for classification
✓ − Data available to make classification

# **SECTION 12 Ecological information**

	Endpoint	Test Duration (hr)	Species	Value	Source
MineralX	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96h	Fish	1000mg/L	4
andiona ablanida	EC50	72h	Algae or other aquatic plants	20.76- 36.17mg/L	4
sodium chloride	EC50	48h	Crustacea	0.004- 0.006mg/L	4
	EC50	96h	Algae or other aquatic plants	1110.36mg/L	4
	NOEC(ECx)	6h	Fish	0.001mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
magnesium chloride	EC50	48h	Crustacea	95- 342mg/L	4
	NOEC(ECx)	168h	Fish	0.1mg/l	4
	LC50	96h	Fish	480mg/L	4

Latitation in Flocal Toxicity Data 2. Europe Ecrita registered Substances - Ecotoxicological information - Aquatic Toxicity A. 6.5 E Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Chemwatch: 7975-80 Version No: 2.1

Page 9 of 11

MineralX

Initial Date: 13/10/2025 Revision Date: 13/10/2025

Print Date: 13/10/2025

### DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium chloride	LOW	LOW
magnesium chloride	HIGH	HIGH

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
sodium chloride	LOW (LogKOW = 0.54)
magnesium chloride	LOW (BCF = 3.162)

### Mobility in soil

Ingredient	Mobility
sodium chloride	LOW (Log KOC = 14.3)
magnesium chloride	LOW (Log 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.

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. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted.

- DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

# **SECTION 14 Transport information**

## Labels Required

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

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

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

Product name	Group
sodium chloride	Not Available
magnesium chloride	Not Available

### 14.7.3. Transport in bulk in accordance with the IGC Code

•	
Product name	Ship Type
sodium chloride	Not Available
magnesium chloride	Not Available

### **SECTION 15 Regulatory information**

Initial Date: 13/10/2025 Revision Date: 13/10/2025 Print Date: 13/10/2025

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

### sodium chloride is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

### magnesium chloride is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

### **Additional Regulatory Information**

Not Applicable

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (sodium chloride; magnesium chloride)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
UAE - Control List (Banned/Restricted Substances)	No (sodium chloride; magnesium chloride)
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	13/10/2025
Initial Date	13/10/2025

### 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 ▶ DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- ► IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- ▶ 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

Chemwatch: **7975-80** Version No: 2.1

Page 11 of 11 **MineralX** 

Initial Date: 13/10/2025 Revision Date: 13/10/2025

Print Date: 13/10/2025

- KECI: Korea Existing Chemicals InventoryNZIoC: 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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