

# Safety Data Sheet

## HAZARDOUS Substance, NON-Dangerous Goods

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** GALAXIE WP ADMIX

Synonyms	Product Code	
Galaxie WP Admix 20kg bag	GALWPADMIX20	

**Recommended use:** Waterproofing admixture for concrete and cementitious systems. Mixed into cement/mortar to provide integral waterproofing protection.

**Supplier:** TAM Australia Pty Ltd

**ABN:** 35 637 639 251

**Street Address:** 314 Glen Osmond Road, Myrtle Bank SA 5064, Australia

**Website:** tamaustralia.com.au

**Emergency Telephone number:** Australia – 131 126 (Poisons Information Centre, 24 hrs)

### 2. HAZARDS IDENTIFICATION

**Classification in accordance with GHS (7th Edition) and Safe Work Australia:**

Hazard Class	Category	Hazard Statement
Skin Irritation	Category 2	H315 – Causes skin irritation.
Eye Damage	Category 1	H318 – Causes serious eye damage.
Skin Sensitisation	Category 1	H317 – May cause an allergic skin reaction.
STOT – Single Exposure	Category 3	H335 – May cause respiratory irritation.
STOT – Repeated Exposure	Category 2	H373 – May cause damage to respiratory organs through prolonged or repeated exposure.

**Signal Word:** DANGER



**Poison Schedule:**

Not applicable.

### DANGEROUS GOODS CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code, 8th Edition).

**Precautionary Statements:**

P260 – Do not breathe dust.

**Product Name:** GALAXIE WP ADMIX

**Reference No:** GALSDSWPAD

**Issued:** 21 MAY 2025

**Version:** 2.0

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P264 – Wash hands and skin thoroughly after handling.  
 P271 – Use only outdoors or in a well-ventilated area.  
 P272 – Contaminated work clothing must not be allowed out of the workplace.  
 P280 – Wear protective gloves / protective clothing / eye protection / face protection and an AS/NZS 1715/1716-compliant P2 dust respirator.  
 P302 + P352 – IF ON SKIN: Wash with plenty of water.  
 P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P310 – Immediately call the Poisons Information Centre (131 126) or a doctor/physician.  
 P501 – Dispose of contents/container in accordance with current Australian state/territory regulations.

### 3. COMPOSITION INFORMATION

This product is a mixture. Concentrations are expressed as percentage by weight (% w/w).

Chemical Entity	CAS No.	Proportion	GHS Classification (7th Ed.)
Portland Cement	65997-15-1	35–60% (w/w)	Skin Irrit. 2: H315 Skin Sens. 1: H317 Eye Dam. 1: H318 STOT SE 3: H335
Calcium Dihydroxide (Alkaline Earth Compound)	1305-62-0	5–20% (w/w)	Skin Irrit. 2: H315 Eye Dam. 1: H318 STOT SE 3: H335
Silica Sand (< 0.005% (w/w) 10 µm respirable silica)	14808-60-7	30–40% (w/w)	STOT RE 2: H373

Note: This product contains Portland cement which may contain Chromium (VI) at levels below 2 ppm. The effectiveness of any reducing agent in the cement diminishes over time.

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or the Poisons Information Centre (Phone: Australia 131 126).

**Inhalation:** Remove person from exposure immediately. Keep at rest in a position comfortable for breathing. Dust in the throat and nasal passages should clear spontaneously. If symptoms persist, irrigate nose and throat with clean water for at least 20 minutes. Seek immediate professional medical attention.

**Skin Contact:** Quickly and gently blot away any dry powder. Under running water, remove contaminated clothing, shoes and leather goods. Continuously flush the contaminated area with lukewarm, gently flowing water for at least 20 minutes. If skin irritation or rash occurs, seek medical advice/attention.

**Eye Contact:** Quickly and gently blot away any dry powder from around the eye. Irrigate cautiously with large volumes of water for at least 20 minutes. Remove contact lenses if present and if easy to do. Continue rinsing. Do not rub the eyes. Seek immediate professional medical attention.

**Ingestion:** Do not induce vomiting. If vomiting occurs naturally, position victim leaning forward to reduce aspiration risk. If conscious, rinse mouth with clean water and give 240–300 mL water to drink, followed by milk if available. Never give anything by mouth to an unconscious patient. Seek immediate professional medical assistance and contact the Poisons Information Centre (131 126).

**PPE for First Aiders:** Wear safety shoes, overalls, impervious gloves, safety goggles and an AS/NZS-compliant P2 dust respirator. Wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing before storing or reuse.

**Notes to physician:** Treat symptomatically. Ensure eyewash facilities and safety shower are available at the worksite.

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## Most Important Symptoms and Effects:

**Acute:** Irritation to skin, eyes and mucous membranes.

**Delayed:** Long-term exposure to elevated dust levels may result in lung damage. Ensure dust is not inhaled.

## 5. FIRE FIGHTING MEASURES

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Galaxie WP Admix is a cementitious powder and is not flammable. If surrounding materials are involved in fire, use water fog, alcohol-resistant foam, standard foam, dry agent (carbon dioxide or dry chemical powder).

**Specific hazards:** Non-combustible material. No hazardous combustion products are anticipated under normal conditions.

**Firefighting advice:** No specialist PPE is required for firefighters dealing with this product. Alkaline earth compounds may cause explosive decomposition of maleic anhydride, nitroalkanes and nitroparaffins. Prior to operations, liaise with the local fire authority for current guidance on cementitious products.

**Dangerous Goods – Initial Emergency Response Guide No.:** Not applicable.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear full protective equipment to prevent skin and eye contamination and inhalation of dust. Do not dry sweep. Collect using a HEPA-filtered vacuum cleaner or wet methods (damp mopping, wet brushing or fine water mist). Place in clearly labelled, sealed containers for disposal.

### LARGE SPILLS

Clear area of all unprotected personnel. Product may be slippery when wet. Avoid accidents — clean up immediately. Wear full protective equipment. Ensure adequate ventilation. Contain the spill — prevent run-off into drains, stormwater systems and waterways. Use wet methods to collect product. Place in clearly labelled, sealed containers for disposal. If contamination of watercourses or sewers occurs, notify the relevant state or territory Environment Protection Authority (EPA) and local emergency services immediately.

**Dangerous Goods – Initial Emergency Response Guide No.:** Not applicable.

## 7. HANDLING AND STORAGE

**Handling:** Avoid all dust generation — in particular respirable dust. At all times avoid inhalation and contact with skin and eyes. Use correct manual handling techniques; use mechanical aids where needed. Always wear full PPE and suitable clothing when handling this product. Avoid kneeling directly in the product; if unavoidable, wear impervious waterproof PPE. Ensure adequate ventilation. Do not eat, drink or smoke when handling or applying this product. Remove contaminated clothing before entering eating areas. Handle bags and pails with care to prevent accidental bursting.

**Storage:** Store in a cool, dry, draught-free, well-ventilated place away from direct sunlight, clear of the ground. Avoid humid conditions and temperatures below 7°C. Keep containers tightly closed and protected from moisture. Store away from foodstuffs, incompatible materials (see Section 10) and sources of heat or ignition. Keep containers standing upright and check regularly for damage. Use within 12 months of the date of production. Product must not have been exposed to the atmosphere prior to use. Stack in a stable and safe manner to prevent falling or accidental bursting of packaging.

This product contains Portland cement and therefore Chromium (VI), which may produce an allergic skin reaction. The reducing agent in the cement reduces in effectiveness over time.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:** The following Workplace Exposure Standards (WES) apply under Safe Work Australia Workplace Exposure Standards for Airborne Contaminants (current edition):

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Substance (CAS No.)	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	Fraction	Notes
Calcium Hydroxide (1305-62-0)	5	—	Inhalable	Safe Work Australia WES
Portland Cement (65997-15-1)	10 (inhalable) 1 (respirable)	—	Both	<1% crystalline silica
Crystalline Silica – Quartz (14808-60-7)	0.05 (respirable)	—	Respirable	Refer Safe Work Australia WES 2024

Note: The percentage of respirable crystalline silica in the silica sand is < 0.005% (w/w); however, certain processes or applications may increase this fraction.

**Biological Limit Values:** As per Safe Work Australia national model regulations, the ingredients in this material do not have a biological limit value allocated.

**Engineering Measures:** Provide adequate local exhaust ventilation (LEV) to maintain dust concentrations below the applicable WES. All ventilation systems must be fitted with appropriate filters before discharge to atmosphere. Segregate personnel from dusty areas where practicable. Do not eat, drink or smoke when working with this product. After work, wash or shower and use skin moisturiser. Remove and decontaminate clothing, footwear and accessories before reuse.

**Personal Protection Equipment:** SAFETY SHOES, OVERALLS, IMPERVIOUS GLOVES, SAFETY GOGGLES, P2 DUST RESPIRATOR (AS/NZS 1715/1716).

**Skin Protection:** Impervious, abrasion-resistant and alkali-resistant gloves; enclosed rubber boots; closed long-sleeved impervious protective clothing. Close all fittings at openings.

**Eye Protection:** Wear safety goggles/glasses with suitable side protection at all times. A face shield is recommended where splash risk exists.

**Respiratory Protection:** Wear an AS/NZS 1715/1716-compliant particulate respirator rated P2 or higher at all times when handling this product. Conduct fit-testing in accordance with AS/NZS 1715. All RPE must comply with applicable WHS legislation.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Ensure that eyewash stations and safety showers are close to the workstation. Do not allow product dust to enter stormwater, drainage systems or the natural environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Form	Dry powder
Colour	Grey
Odour	Odourless
Solubility	Forms slurry with water; hardens over time
Specific Gravity	2.0 – 2.8 (water = 1)
Vapour Pressure (20°C)	Not applicable
Flash Point (°C)	Not applicable
Flammability Limits (%)	Not applicable
Autoignition Temperature (°C)	Not applicable

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Property	Value
Melting/Freezing Point (°C)	Not applicable
Initial Boiling Point (°C)	Not applicable
pH (slurry)	9.1 – 9.8 (2 parts water : 1 part powder by volume)
Viscosity	Not applicable
Vapour Density	Not applicable
Decomposition Temperature	Alkaline earth compounds: 580°C
Explosive Properties	Not applicable
Oxidising Properties	Not applicable

## 10. STABILITY AND REACTIVITY

**Chemical stability:** This material is chemically stable under normal conditions. When mixed with water it hardens over time into a stable mass.

**Conditions to avoid:** Elevated temperatures, moisture during storage, and drafty environments. Do not store below 7°C.

**Incompatible materials:** Strong acids. The uncontrolled addition of aluminium powder to wet cement should be avoided as hydrogen gas is produced. Alkaline earth compounds react vigorously with strong acids and attack aluminium, lead and brass in the presence of moisture.

**Hazardous decomposition products:** Alkaline earth compounds may cause explosive decomposition of maleic anhydride, nitroalkanes and nitroparaffins in the presence of water. Alkaline earth compounds decompose above 580°C to form Calcium Oxide. Products may liberate carbon monoxide or carbon dioxide.

**Hazardous reactions:** In the presence of water, calcium aluminates react to form stable calcium aluminate hydrates. This reaction is exothermic and may last up to 24 hours (total heat < 500 kJ/kg). No other known hazardous reactions under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** May irritate the throat, mucous membranes and respiratory tract. Coughing, sneezing and shortness of breath may occur at exposures above the WES.

**Skin contact:** Thickening, cracking or fissuring of the skin may occur. Prolonged contact combined with abrasion may cause severe burns. Portland cement and alkaline earth compounds are dermal irritants; dermatitis may develop following repeated exposure. Contains < 2 ppm Chromium (VI), which is a skin irritant.

**Eye contact:** Direct contact may cause corneal damage, irritation or inflammation. Effects may range from conjunctivitis or blepharitis to chemical burns or blindness.

**Ingestion:** Swallowing may result in nausea, vomiting and irritation of the gastrointestinal tract.

### Acute Toxicity

**Inhalation:** Portland cement: dust/mist LC50 > 5.0 mg/L. Calcium dihydroxide: not acutely toxic by inhalation.

**Skin contact:** Calcium dihydroxide: rabbit dermal LD50 > 2,500 mg/kg bw. Portland cement limit test (rabbit, 2,000 mg/kg bw, 24 hr): no lethality.

**Ingestion:** Calcium dihydroxide: rat oral LD50 > 2,000 mg/kg bw. Not acutely toxic by ingestion.

**Corrosion/Irritancy:** Eye: causes serious eye damage (Category 1). Skin: causes skin irritation (Category 2).

**Sensitisation:** Skin: this product contains Portland cement, which is classified as a skin sensitiser (Category 1). Some individuals may develop eczema on exposure to wet cementitious products due to high pH or immunological reaction to soluble Cr (VI).

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**Aspiration hazard:** Not applicable (dry powder product).

## Chronic Toxicity

**Mutagenicity:** With the exception of Chromium (VI) (< 2 ppm) in Portland cement, no individual substance in this mixture is classified as mutagenic.

**Carcinogenicity:** The silica sand in this product is not classified as carcinogenic due to its large particle size. However, prolonged/massive exposure to respirable crystalline silica dust may cause silicosis. IARC (1997) concluded that crystalline silica inhaled from occupational sources can cause lung cancer under certain industrial circumstances. Occupational exposure should be monitored and controlled in accordance with Safe Work Australia guidance.

**Reproductive toxicity:** No individual substance in this mixture is classified as a reproductive toxicant.

**Specific target organ toxicity (single exposure):** Inhalation of dust can result in damage to the respiratory tract (STOT SE 3: H335).

**Specific target organ toxicity (repeat exposure):** Prolonged or repeated inhalation exposure may cause lung damage, including chronic obstructive pulmonary disease (COPD), silicosis, pneumoconiosis or pulmonary fibrosis (STOT RE 2: H373).

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways. Do not allow this product to enter drains, stormwater systems or the natural environment. If contamination of water occurs, notify the relevant state or territory EPA and local emergency services immediately.

**Acute aquatic hazard:** The addition of significant quantities of this product to water may raise pH and may be toxic to aquatic life. LC50 (96 h) freshwater/marine fish (calcium dihydroxide): 50.6 mg/L and 457 mg/L. EC50 (48 h) freshwater invertebrates: 49.1 mg/L.

**Long-term aquatic hazard:** EC50 (72 h) freshwater algae: 184.57 mg/L; NOEC: 48 mg/L. NOEC (14 d) marine invertebrates: 32 mg/L. Alkaline earth material is non-biodegradable; it reacts with atmospheric and dissolved CO<sub>2</sub> to form calcium carbonate.

**Terrestrial/soil ecotoxicity:** NOEC for soil macro-organisms: 2,000 mg/kg soil dw; for micro-organisms: 12,000 mg/kg soil dw. NOEC (21 d) terrestrial plants: 1,080 mg/kg. Alkaline conditions may also have adverse effects on vegetation.

**Bioaccumulative potential:** No substances in this mixture are known to bioaccumulate.

**PBT/vPvB assessment:** This mixture does not contain any substances assessed as PBT or vPvB.

**Mobility in soil:** Not determined.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate PPE is used — refer to Section 8. Avoid generating airborne or respirable dust when disposing of this product. Dispose of all materials in accordance with current Australian Commonwealth, state and territory regulations.

**Unused residue or dry spillage:** Collect dry product and place in clearly labelled, sealed containers. Where required, harden with water to minimise dust generation. Dispose of at a licensed waste facility accepting cementitious and alkaline earth-based waste.

**Slurries:** Allow slurry to harden fully. Avoid entry into sewage, drainage systems or bodies of water. Dispose of as for hardened product.

**Hardened product (after addition of water):** Dispose of at a licensed waste facility accepting cementitious and alkaline earth-based waste. Avoid entry into sewage, drainage systems or bodies of water.

**Packaging:** Completely empty all packaging and process in accordance with current Australian regulations. If possible, the material and its container should be recycled. If material or container cannot be recycled, dispose of in accordance with local, state and national legislation.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code, 8th Edition).

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## MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

## AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirements:

- All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC).
- This product is classified as a hazardous chemical under the Work Health and Safety (WHS) Act and Regulations (Commonwealth, states and territories).
- Classification is in accordance with GHS (7th Edition) and Safe Work Australia criteria.

## 16. OTHER INFORMATION

**Reason for issue:** New issue – Galaxie WP Admix (reformatted to GHS 7th Edition for Australia)

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises, at the date of issue, our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since the company cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact TAM Australia.

Our responsibility for the product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

### Key Abbreviations:

AIIC – Australian Inventory of Industrial Chemicals | ADG – Australian Dangerous Goods Code | CAS – Chemical Abstracts Service | COPD – Chronic Obstructive Pulmonary Disease | GHS – Globally Harmonised System | IARC – International Agency for Research on Cancer | PPE – Personal Protective Equipment | STOT – Specific Target Organ Toxicity | TWA – Time-Weighted Average | WES – Workplace Exposure Standard | WHS – Work Health and Safety