SAFETY DATA SHEETS (SDS)
Enviro GTX

Version: 1

Issued by: Envirosystems Technologies

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Hazard Identifiers

SECTION 1 – IDENTIFICATION OF MATERIAL & SUPPLIER

1.1 **Product Name:** Enviro GTX
Manufacturer's Product Code: N/A
1.2 **Recommended Use:** A non - slump, white, cement based tile adhesive specially designed for large format tiles
1.3 **Company:** Envirosystems Technologies Pty Ltd
Address: 295 Princes Highway St Peters, NSW 2044.
Website: www.envirosystems.com.au
Telephone: +61 2 85958699 (business hours)
Fax: +61 2 85958660
1.4 **Emergency Telephone:** Info Safe – 1800 638 556, Poisons Centre – 131126

Other Information: All information in this SDS is to the best of our knowledge at time of publication. Users of this product should fully review this SDS prior to use to ensure best safety practices. Further information and or clarification can be obtained by contacting our technical department on the above telephone number.

SECTION 2 – HAZARDS IDENTIFICATION

2.1 **Hazard Classification:** Classified as **Hazardous** according to WHS Regulations, Australian GHS criteria and a **Non-Dangerous Goods** according to the Australian Dangerous Goods Code.

Class	Category
Specific Target Organ Systemic Toxicity (Repeated Exposure)	2
Skin Corrosion/Irritation	2
Serious Eye Damage/Eye Irritation	2a
Acute Toxicity	4

2.2 **Label Elements**

Signal word **Warning**

H-code	Hazard Statements
H332	Harmful if inhaled
H315	Causes skin Irritation
H319	Causes serious eye Irritation
H373	May cause damage to organs through prolonged or repeated Exposure
P-Code	**Precautionary Statement - Prevention**
P260, 261	Do NOT breath dust.Can become easily airborne.

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection rated for Dust.
P264	Wash skin thoroughly after handling.
P-Code	**Precautionary Statement - Response**
P302, P352	IF ON SKIN: Wash with plenty of soap and water.
P333, P313	If skin irritation or rash occurs: Get medical advice/attention.
P304, P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P351, P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314, P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment is advised - see first aid instructions.
P362, P364	Take off contaminated clothing and wash it before reuse.
P-Code	**Precautionary Statement - Storage**
P405, P403, P233	Store locked up in a well-ventilated place. Keep container tightly closed.
P-Code	**Precautionary Statement - Disposal**
P501	Dispose of contents / containers to hazardous or special waste collection point. In accordance with local regulation

2.3 Other Hazards None known

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances See section below for Mixtures

3.2 Mixtures

CAS No.	Material	Content %
14808-60-7	Quartz (Crystalline Silica)	15-25
65997-15-1	Portland Cement	35-45
471-34-1	Calcium Carbonate	10-16
	Non-hazardous Ingredients	Balance

Notes: Chromium VI is a trace impurity in Portland Cement (< 20 ppm). Depending on the source material, may contain varying amounts of respirable quartz (crystalline silica)

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

General Advice:
Immediately remove contaminated clothing. If in danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial reparation if necessary. First aid personal should pay attention to the own safety.

Ingestion:
For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

Inhalation:
If inhaled, remove from contaminated area to fresh air and keep at rest in a position comfortable for breathing. Apply artificial respiration if not breathing.

Eye Contact:
If in eyes, hold eyelids apart and flush continuously with running water. Continue

		flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes. **Skin Contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water (and soap if available). Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
4.2	**Most important symptoms and effects, both acute and delayed**	Irritating to the eyes, skin and respiratory system. Dust may contain small amounts respirable crystalline silica. Chronic over exposure to silica quartz dust may result in silicosis. Principal symptoms of silicosis are coughing and breathlessness. Appropriate monitoring is recommended for people regularly exposed to quartz dust. Some individuals may exhibit an allergic response upon exposure to this product, possibly due to the trace amounts of chromium present. Crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).
4.3	**Advice for doctor**	Treat as for moderate to strong alkali and symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

5.1	**Extinguishing media**	Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
5.2	**Special hazards arising from the substance or mixture**	Non-flammable. May evolve toxic gases if strongly heated.
5.3	**Advice for firefighters**	No fire or explosion hazard exists.
5.4	**Hazchem code**	None allocated.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Wear Personal Protective Equipment (PPE) as detailed in section 8 of this SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.
6.2	**Environmental precautions**	Do not discharge into sewers or waterways and soil.
6.3	**Methods and material for containment and cleaning up**	Contain spillage, then collect and place in suitable containers for reuse or disposal. Avoid generating dust. If able clean up with a vacuum device to avoid generating dust. Wetting during clean up is likely to cause this product to set.
6.4	**Reference to other sections**	Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7 – HANDLING & STORAGE

7.1	**Precautions for safe handling**	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.
7.2	**Conditions for safe storage**	**Storage Requirements:** Store in a cool, dry, well ventilated area, removed from moisture, incompatible substances and foodstuffs. Ensure packages are adequately labelled, protected

from physical damage and sealed when not in use.

7.3 Specific end use(s)

A non - slump, white, cement based tile adhesive specially designed for large format tiles

7.4 Regulations and standards (Australia):

No information provided.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits: Safe work Australia

Ingredient	TWA	STEL
Quartz (respirable dust)	0.1 mg/m3	-
Portland cement	10 mg/m3	-
Calcium Carbonate	10 mg/m3	-

8.2 Exposure controls

Engineering controls and hygiene measures:
Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.
Personal protection equipment:
Respiratory protection
Where an inhalation risk exists wear a Class P1 (Particulate) respirator, dependent on a site specific risk assessment.
Eye protection
Wear safety glasses or dust-proof goggles when handling material to avoid contact with eyes.
Hand protection
Wear PVC, rubber or cotton gloves when handling material to prevent skin contact.
Skin protection
Wear long sleeved shirt and full-length trousers.
Other Information
Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

8.3 Further information for system design and engineering measures

No information provided.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

9.1

Odour:	Slight odour
Odour Threshold	Not available
Colour:	White
Physical State:	Powder
Flash Point:	Not relevant
Boiling Point:	Not Available
Melting Point:	>1200^{o}C
Specific Gravity:	1.3 kg/l
pH:	11-13
Solubility in Water (g/L):	< 10g/L
Flammability:	Non Flammable
Explosive Lower Limit:	Not relevant
Explosive Higher Limit:	Not relevant
Vapour Pressure:	Not Available

	Vapour Density (Air = 1)	Not Available
	Volatile component	Not Available
	Auto-ignition temperature (°C)	Not Available
9.2	**Other information**	Density 1300 kg/m³

SECTION 10 – STABILITY AND REACTIVITY

10.1-3	**Reactivity; Chemical stability; Possibility of hazardous reactions**	If stored and handled in accordance with standard industrial practices not hazardous reactions are known. Unstable in the present of incompatible material.
10.4	**Conditions to avoid**	See SDS section 7 - Handling and storage. Avoid heat, sparks, open flames and other ignition sources
10.5	**Incompatible materials**	Incompatible with oxidising agents (e.g. hypochlorites), ethanol, acids (e.g. hydrofluoric acid) and interhalogens (e.g. chlorine trifluoride). Water contact may increase product temperature 2°C to 3°C.
10.6	**Hazardous decomposition products**	May evolve toxic gases if heated to decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity/Effects

Enviro GTX: is comprised of stable substances, compatible with most other building materials that will not decompose into hazardous by-products and do not polymerise.

Acute toxicity:
No known toxicity data is available for this product. Based on available data, the classification criteria are not met.

Skin:
Irritating to the skin. Contact with powder or wetted form may result in irritation, rash and dermatitis.

Eyes:
Irritating to the eyes. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.

Sensitization:
This product is not classified as a skin or respiratory sensitiser. However, some individuals may exhibit an allergic response upon exposure to cement, possibly due to trace amounts of chromium.

Chronic Toxicity/Effects

Mutagenicity:
Insufficient data available to classify as a mutagen.

Carcinogenicity:
This product contains crystalline silica which is classified as carcinogenic to humans (IARC Group 1). There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1), however due to the trace amounts present, the criteria for classification is not met.

Reproductive:
Insufficient data available to classify as a reproductive toxin.

STOT - single exposure:
Irritating to the respiratory system. Over exposure may result in irritation of the nose and throat, coughing. Pre-existing upper respiratory and lung diseases including asthma and bronchitis may be aggravated. High level exposure may result in breathing difficulties.

STOT – repeated exposure:
Repeated over-exposure to respirable silica may result in pulmonary fibrosis and/or Silicosis. Silicosis is a fibronodular lung disease caused deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness. In the wet state, the likelihood of an inhalation hazard is reduced.

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Long Term Effects: Above

SECTION 12 – ECOLOGICAL INFORMATION

12.1	**Toxicity**	May be harmful to the aquatic environment due to the alkaline nature of the product. This product is non-toxic to aquatic organisms when present as a cured solid.
12.2	**Persistence and degradability**	Product is persistent and would have a low degradability
12.3	**Bioaccumulative potential**	This product is not expected to bioaccumulate.
12.4	**Mobility in soil**	A low mobility would be expected in a landfill situation.
12.5	**Additional Information**	Avoid contamination of drains and waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Reuse or recycle where possible. Alternatively, ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required) Dispose of in accordance with relevant local legislation.

SECTION 14 – TRANSPORT INFORMATION

Transport Information

Classified as a Non Dangerous Good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail.

U.N. Number:	None Allocated
DG Class:	None Allocated
EPG card:	None Allocated
Hazchem Code:	None Allocated
Proper Shipping Name:	None Allocated
Packing Group:	None Allocated
Poison Schedule	None Allocated

Classification for SEA transport (IMO-IMDG)

U.N. Number:	None Allocated
DG Class:	None Allocated
Proper Shipping Name:	None Allocated
Packing Group:	None Allocated
Marine Pollutant:	No

Classification for AIR transport (IATA/ICAO)		U.N. Number:	None Allocated
		DG Class:	None Allocated
		Proper Shipping Name:	None Allocated
		Packing Group:	None Allocated
Label	None		

SECTION 15 – REGULATORY INFORMATION

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

National and local regulations must be observed. For information on labeling please refer to section 2 of this document.

Poison schedule:
A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications:
Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals
Inventory listing(s) AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

The components of this product are not classified as dangerous good.

SECTION 16 – OTHER INFORMATION

16.1 PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

16.2 HEALTH EFFECTS FROM EXPOSURE:
It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

16.3 Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service number - used to uniquely identify chemical compounds
EC No.	European Community Number
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m³	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT RE	Specific target organ toxicity (repeated exposure)

STOT SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons SWA Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

16.5 Safety Data Sheets are updated regularly. Please ensure you have a current copy. SDS can be obtained from our website: www.envirosystems.com.au
The SDS should be used to assist in the Risk Management. Many other factors determine whether the reported Hazards are risks in any given workplace.
Specific Risks may be determined by reference to various Exposure Scenarios, Scale of use, Frequency of use and current or available engineering controls must be considered.

Emergency Telephone: Info Safe – 1800 638 556, Poisons Centre – 13112