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MATERIAL SAFETY DATA SHEET

MSDS 172

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1. Product and Company Identification

- 1.1 PRODUCT NAME:** CLEARSHIELD G11
- 1.2 USE OF PRODUCT** Clear solution acrylic glaze for use over high build coating systems and a finish sealant for concrete natural stone, exposed aggregate and brick.
- 1.3 SUPPLIER:** Equus Industries Ltd
Sheffield Street
Riverlands Industrial Estate
Blenheim, Marlborough, New Zealand
Telephone: +64 3 578 0214
Fax: +64 3 578 0919
- 1.4 EMERGENCY CONTACT:** **National Poison Centre**
Telephone: 0800 764 766

Information about Safety Data Sheet: Telephone: +64 3 578 0214 8:00am – 6:00pm Mon - Fri

2. Hazards Identification

- 2.1 Classification:**
Dangerous Goods – classification according to New Zealand Dangerous Goods Code.
- 2.2 Risk & Safety Phrases:**
R10,20,37
S23,45

The full text of each R & S phrases are listed in Section 16.

3. Composition/Information on Ingredients

- 3.1 Chemical Characterization (Preparation):**
This product is a preparation.



3.2 Hazardous Ingredients:

| CAS NO. | COMPONENT | CONCENTRATION % | CLASSIFICATION |
|------------|--|-----------------|-----------------------|
| - | Acrylic copolymer resin | 60-80% | R10/20/37 |
| 64742-82-1 | Naphtha (Petroleum), hydrodesulfurized heavy | 20-40% | R10/51/53/65/66/67 |
| 64742-95-6 | Naphtha (Petroleum) | <10% | R10/37/51/53/65/66/67 |

3.3 Only ingredients, additives and impurities which are classified and contribute to the classification of the product are included in this section.

4. First Aid Measures

4.1 After Inhalation:

Remove person to fresh air. Allow person to rest. If not breathing, give artificial respiration. Seek medical attention immediately.

4.2 After Skin Contact:

Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse or discard. If irritation develops, seek medical attention.

4.3 After Eye Contact:

Rinse immediately with copious amounts of water for at least 15 minutes, while holding eyelids open. Take care not to rinse contaminated water into unaffected eye. Seek medical attention.

4.4 After Ingestion:

Do not induce vomiting. Rinse mouth with water. Allow affected person to rest. Seek medical attention immediately.

4.5 Advice to Doctor:

4.5.1 Oral:

Gastrointestinal irritation, nausea, vomiting and cramping. CNS depression, ranging from mild headache to anaesthesia and coma. Pulmonary irritation secondary to exhalation of solvent. Lavage with cuffed tube if large quantity ingested. Aspiration is the main danger. Enforce bed rest for chemical pneumonitis. Longer term medical surveillance may be necessary. Maintain airway and vital functions. Avoid sympathomimetic amines.

4.5.2 Inhalation:

CNS depression characterized by headache and dizziness.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:

Water spray, foam, dry chemical.



5.2 Protective Equipment:

Use self contained breathing apparatus when in close proximity to fire, and wear full body protective clothing.

5.3 Specific Hazards:

Eliminate every possible source of ignition (open flame, sparks, smoking etc) Use special care to avoid static electric discharges.

5.4 Combustion Products:

Carbon monoxide, carbon dioxide, fumes and smoke.

5.5 Precautions in Connection with Fire:

Do not use a heavy water stream, in order to avoid the fire to extend. Apply water spray or fog to cool nearby equipment. Avoid fire fighting water to enter environment.

6. Accidental Release Measures

6.1 Preliminary Action and Precautions:

6.1.1 Extinguish or remove all sources of ignition.

6.1.2 Wear appropriate protective equipment to protect eyes and skin, and to avoid inhalation of gases, vapours or aerosols.

6.1.3 Clear area of all unprotected personnel.

6.1.4 If safe to do so, shut off sources of leak.

6.1.5 Avoid spill/leak from entering stormwater drains, sewers and open bodies of water by containing the spill/leak with sand or earth.

6.1.6 Recover free liquid, then apply absorbent material (sand, earth, sawdust etc.) to spill area.

6.1.7 Place spent absorbent into suitable sealable container, properly labelled.

6.1.8 Store away from naked flames, sparks or any heat source, ready for disposal.

7. Handling and Storage

7.1 Handling:

7.1.1 Always provide adequate ventilation.

7.1.2 Avoid breathing vapour or mist.

7.1.3 Avoid contact with eyes, skin and clothing.

7.1.4 Use special care to avoid static electric discharges.

7.1.5 Wash hands thoroughly after handling, especially before eating, drinking, smoking or using the toilet.



7.1.6 Do not use near welding operations, flames, hot surfaces or other ignition sources.

7.2 Storage:

7.2.1 Store in a well ventilated, fire proof place.

7.2.2 Store away from sources of ignition, (ie sparks, open flames, heat etc.)

7.2.3 Store away from oxidizers.

7.2.4 Keep containers tightly closed at all times.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

| | | |
|-----------------------------|------------------|---|
| Solvent naphtha (petroleum) | Cas – 64742-95-6 | TLV/TWA (ACGIH): 19ppm (100mg/m ³) STEL (ACGIH): 50ppm (250mg/m ³) |
| Naphtha (petroleum) | Cas – 64742-82-1 | TLV/TWA (ACGIH): 61ppm (350mg/m ³) |

8.2 Exposure Controls:

8.2.1 Exposure Controls in the Work Place:

Ensure adequate ventilation at all times to maintain exposure levels below exposure limits set for the solvents.

8.2.2 Personal Protection Equipment:

Respiratory Protection – Use Approved respirator with replaceable organic vapour filter. Reference should be made to Australian standards AS/HZS 1715. Use and maintenance of respiratory protection devices and AS/HZS 1716 Respiratory Protection Devices, in order to make any necessary changes for individual circumstances.

Hand Protection – Use PVC, neoprene or nitril-rubber gloves.

Eye Protection – Use protective goggles.

Body Protection – Long sleeved overalls.

9. Physical and Chemical Properties

9.1 General Information:

| | |
|-------------------------------------|-----------------------------|
| Physical State/Form | Liquid |
| Colour | Clear |
| Odour | Hydrocarbon/acrylic solvent |
| Flash Point | 36°C (closed cup) |
| Water Solubility/Miscibility | Negligible. |
| Specific Gravity | 0.85-0.87 |
| VOC | 327 g/l |



10. Stability and Reaction

10.1 General Information:

This material is stable when properly handled and stored. No hazardous reactions are known.

10.2 Conditions to Avoid:

High temperatures, open flames, sparks.

10.3 Material to Avoid:

Halogens, molten sulfur, strong oxidizing agents.

10.4 Hazardous Decomposition Products:

None expected when material properly handled and stored. For thermal decomposition see Section 5.

11. Toxicological Information

11.1 General Information:

No specific toxicity data is available for this product.

11.2 Skin Contact:

May be mildly irritating. Frequent or prolonged contact with skin may cause dermatitis.

11.3 Eye Contact:

May be irritating to the eyes.

11.4 Ingestion:

May cause irritation. Small amounts of liquid aspirated into the respiratory system during ingestion, or from vomiting may cause bronchiopneumonia or pulmonary oedema.

11.5 Inhalation:

Harmful by inhalation. High vapour concentrations are irritating to the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous systems effects.

11.6 Chronic effects:

Dermatitis may be caused by prolonged exposure to skin. Respiratory disorders may be aggravated by repeated or prolonged inhalation.

12. Ecological Information

12.1 Environment Protection:

Prevent product from entering drains, sewers and waterways.

12.2 Ecotoxicity:

Data not available.

12.3 Persistence and degradability:

Data not available.



- 12.4 Bioaccumulative Potential:**
Data not available.

13. Disposal Consideration

- 13.1 Material**
Dispose of according to regulations by incineration in a special waste incinerator or landfill at a permitted facility in accordance with local/national regulations.

14. Transport Information

- 14.1 Land Transport:**
- Road: Flammable liquid. (Class: 3, GP III, HAZ CHEM 3Y)
- Rail: Flammable liquid. (Class: 3, GP III, HAZ CHEM 3Y)
- 14.2 Sea Transport:** Flammable liquid. (Class: 3.3, GP III, HAZ CHEM 3Y)
- 14.3 Air Transport:** Flammable liquid. (Class: 3, GP III, HAZ CHEM 3Y)
- 14.4 Postal and Courier Service:** This product cannot be transported.

15. Regulatory Information

This product is hazardous and flammable.

16. Other Information

- 16.1 Full Text of R-Phrases Contained in Section 2:**
- | | |
|------------|----------------------------------|
| R10 | Flammable |
| R20 | Harmful by inhalation |
| R37 | Irritating to respiratory system |
- 16.2 Full Text of S-Phrases Contained in Section 2:**
- | | |
|------------|---|
| S23 | Do not breathe gas/fumes/vapour/spray |
| S45 | In case of accident or if you feel unwell, seek medical advice immediately. |
- 16.3** The information contained in this Data Sheet relates only to the specific material identified. Equus Industries Ltd believes the information to be accurate and reliable as at the date of this Data Sheet. No Warranty, Guarantee or representation is expressed or implied by the Company as to the absolute correctness or completeness of any representation contained in this Data and assumes no legal responsibility in connection therewith. It can not be assumed that all acceptable safety measures are contained in this Data Sheet, or that additional measures may not be required under particular or exceptional circumstances or conditions.