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**Where Science Meets the Earth**

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XTM – Xtreme Road Stabilizer

**MATERIAL DATA SAFETY SHEET**

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| Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER |

Product Name: XTM XTREME ROAD STABILIZER

Recommended Use: Roading: Road Stabilizing

Chemical Identity: Blended Product

Product Type: Polymer

Product Composition: Solution of blended polymers

Company Identification: Gravel Lock NZ Ltd,

PO Box 23, Waipu

Northland

New Zealand 0545

Customer Centre: 0800 199 199

National Poisons Information Centre: 0800 POISON (0800 764 766)

Emergency Telephone Number: 0800 699 699) (24hr) (Emergencies Only)

Transport Emergency Phone: 111 - tell operator what service is needed: Fire, Ambulance, Police

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| Section 2: HAZARD IDENTIFICATION |

Hazard Classifications: 6.1E, 6.4A

Priority Identifiers: WARNING KEEP OUT OF REACH OF CHILDREN

Secondary Identifiers: 6.1E = May be harmful if swallowed, inhaled or absorbed through the skin

6.4A = Eye irritant

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| Section 3: COMPOSITION INFORMATION |

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| INGREDIENTS | CAS NO. | PERCENT |
| Magnesium Chloride Hexahydrate | 7791-18-6 | 20-30 |
| Water | 7732-18-5 | 65-75 |
| Poymers | 9063-87-0 | 025-5 |

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| Section 4: FIRST AID MEASURES |

First Aid Measures: This product is low in single dose oral toxicity. Deliberate ingestion of large quantities can cause cramps and diarrhoea. The product is capable of causing minor skin irritation, at most. It is not absorbed through the skin, therefore not a significant hazardous upon the skin.

Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.

Inhalation: Not applicable

Ingestion: Low in toxicity. May cause diarrhoea and vomiting when large quantities are ingested.

Skin: Wash off with water immediately.

Eye: Flush with plenty of water for 15 minutes holding eyelids open if necessary. Call a doctor immediately.

Advice to Doctor: No specific antidote. Treat symptomatically.

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| Section 5: FIREFIGHTING |

Flash Point: Not applicable (non-flammable)

Combustion Products: Not an explosion hazard, exposed to temperatures above 106 C gives formation of toxic chloride gasses.

Extinguishing Media: Based on surrounding materials

Protective Equipment: Breathing apparatus plus protective gloves

HAZCHEM Code: Not applicable

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| Section 6: ACCIDENTAL RELEASE MEASURES |

Spills and Disposal: Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.

Protective Clothing: For appropriate personal protective equipment see section 8.

Environmental Precaution: Magnesium chloride is made from naturally occurring minerals, which are low in toxicity and should present no unusual hazards to the environment under most circumstances. Magnesium Chloride is considered non-hazardous. Users of this product should abide by all local, state and regional laws and regulations concerning air and water discharge.

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact the local authority.

Repair unstable road surfaces prior to magnesium chloride application.

Do not apply magnesium chloride during storm events or

Restrict the use of magnesium chloride within 8 meters of waterways.

Adhere to manufactures minimum and maximum application rate and application procedures.

If road surface is dry before application, dampen with water

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| Section 7: HANDLING AND STORAGE |

Handling: The product is a concentrated solution of salts in water. Crystallisation can occur if the temperature drops below 0 Celsius. Keep away from children.

Approved Handler: Not required

Tracking: Not required

Record Keeping: Not required

Storage: Storage in open or closed tanks. Carbon steel, polyester, polyethylene and polypropylene are suitable materials for construction. When temperature during storage gets below 0 Celsius crystallisation can occur.

Other Information: Always read the label before use. See label for further information on handling and storage

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| Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION |

Exposure Limits: Due to the low degree of health hazard anticipated in industrial handling or use, no exposure limits have been assigned for this product.

Protective Equipment: When contact with product is likely, wear protective gloves and safety glasses.

Engineering Controls: None

Hygiene Precautions: Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work. Contaminated clothing should not be allowed out of the workplace.

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| Section 9: PHYSICAL AND CHEMICAL PROPERTIES |

Appearance: White or brown liquid

Odour: Odourless

Specific Gravity: 1.3

pH: 4-6 (50g/l in water @ 200C)

Solubility in Water: Very soluble in water

Flash Point: Not applicable (non-flammable)

Melting Point Above 160 Celcius chloride gasses are released

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| Section 10: STABILITY AND REACTIVITY |

Stability: Product is a stable concentrated solution of inorganic salts in water. When stored appropriately this product should show no significant degradation for at least 5 years from the date of manufacture.

Hazardous Decomposition Above 160 Celcius chloride gasses are released

Conditions to Avoid: Temperatures below 0 Celcius can cause formation of crystals

Materials to Avoid: None

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| Section 11: TOXICOLOGICAL INFORMATION |

Hazard Classifications: 6.1E, 6.4A

Ingestion: Oral LD50; 8,100 mg/kg (rat). Ingestion of large quantities may lead to nausea, vomiting and diarrhoea.

Inhalation: not applicable

Skin: Not irritating to the skin

Eye: Irritating to the eye

Chronic Effects: No information available

Reproductive Toxicity: No reproductive effects

Mutagenicity: Non-mutagenic

Carcinogenicity: Not considered to be carcinogenic

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| Section12: ECOLOGICAL INFORMATION |

Hazard Classifications: Magnesium chloride is made from naturally occurring minerals, which are low in toxicity and should present no unusual hazards to the environment under most circumstances. Magnesium Chloride is considered non-hazardous. Users of this product should abide by all local, state and regional laws and regulations concerning air and water discharge.

Repair unstable road surfaces prior to magnesium chloride application.

Do not apply magnesium chloride during storm events or within 72 hours of expect rain.

Restrict the use of magnesium chloride within 8 meters of waterways.

Adhere to manufactures minimum and maximum application rate and application procedures.

If road surface is dry before application, dampen with water

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| Section 13: DISPOSAL INFORMATION |

Product Disposal: Dispose of product only by using according to label or at an approved landfill. Do not contaminate bodies of water with chemical or empty container. Recycle where possible.

Container Disposal: Burn container in an appropriate incinerator, bury in an approved landfill or recycle where possible.

Do not use container for any other purpose.

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| Section 14: TRANSPORT INFORMATION |

Transport Information: It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.

RAIL/ROAD; SEA (IMDG Code); AIR (ICAO/IATA)

UN Number: N/A

Proper Shipping Name: Magnesium Chloride Brine

DG Class: N/A

Subsidiary Class N/A

Packing Group: N/A

Marine Pollutant: No

MTQ (non-commercial): N/A

HAZCHEM Code: N/A

IERG Number: N/A

Other information: Check the latest versions of the Land Transport Dangerous Goods Rule 45001 and associated Transport of Dangerous Goods on Land (NZS 5433) for additional information on maximum allowable transport quantities (MTQ’s), placarding and segregation. Sea transport may require further segregation.

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| Section 15: REGULATORY INFORMATION |

ACVM: Exempt from Registration under the ACVM Act 1997

EPA: Approved pursuant to the HSNO Act 1996, Approval number: HSR002764 See www.epa.govt.nz for approval controls.

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| Section 16: OTHER INFORMATION |

This Safety Data Sheet was updated on the date shown on page 1 and supersedes all previous versions.

The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.