Safety Data Sheet: GRT: Liquid-Floc

GRT Safety Data Sheet Version: 2.0
Date /Revised: 30/10/2019
Product: **GRT: Liquid-Floc**

1. Substance/preparation and manufacturer/supplier identification

GRT: Liquid-Floc
Uses: Flocculent Clarifier

Manufacturer/supplier
Global Road Technology Holdings Pty Ltd (ACN: 169 947 139)
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AUSTRALIA
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Emergency Information
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2. Hazard Identification

Classified as hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 (HSR002544 - Additives, Construction Products (Subsidiary Hazard) Group Standard 2017).

Classified as non-dangerous goods according to NZS 5433:2012 Transport of Dangerous Goods on Land.

This material is hazardous according to health criteria of Safe Work Australia.

Labelling according to GHS implementation:

HSNO. Classifications: 6.3A, 6.4A

Hazard Statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Prevention Precautionary Statements
P102 Keep out of reach of children.
P103 Read label before use.
P264 Wash hands, face and all exposed skin thoroughly after handling.
P280 Wear protective clothing, gloves and eye/face protection.

Response Precautionary Statements
P101 If medical advice is needed, have product container or label at hand.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

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3. Composition/information on Ingredients

Copolymer based on acrylic acid:	Content (W/W): = 30 – 50%
Mineral Oil:	Content (W/W): 30 – 50%
Water:	Content (W/W): ≤ 25%

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4. First-Aid Measures

General advice
Immediately remove contaminated clothing.

If inhaled
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact
Wash thoroughly with soap and water. If irritation develops, seek medical attention

On contact with eyes

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist.

On ingestion
Rinse mouth immediately and then drink plenty of water. Seek medical attention.

Note to physician
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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5. Fire-Fighting Measures

Suitable extinguishing media
Dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:
Water jet

Additional information
If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist.

Specific hazards
Harmful vapours, nitrous gases, carbon oxides. The substances/groups of substances mentioned can be released in case of fire. Spilled product is slippery underfoot. Very slippery when wet.

Special protective equipment
Wear a self-contained breathing apparatus.

Further information
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations

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6. Accidental Release Measures

Personal precautions
Use personal protective equipment (PPE). Breathing protection required.

Environmental precautions
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up
For large amounts: Pump off product.
For residues: Pick up with absorbent material. Dispose of absorbed material in accordance with regulations. Use common salt (sodium chloride) to aid removal of residues

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7. Handling and Storage

Handling
No special measures necessary provided product is used correctly.

Protection against fire and explosion:
Take precautionary measures against static discharges.

Storage
Further information on storage conditions: Freezing will affect the physical condition but will not damage the materials. Thaw and mix before use. Store in unopened original containers in a cool and dry place. Avoid wet, damp or humid conditions, temperature extremes and ignition sources.

Storage Stability:
Avoid extreme heat. If frozen, thaw out slowly and stir well before use.

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8. Exposure controls and personal protection

Components with workplace control parameters
Distillates (petroleum), mineral oil
TWA value 5 mg/m^3 (OEL (AU)), Mist

Personal protective equipment
Respiratory protection:
Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:
Chemical resistant protective globes. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time according to EN 374); e.g. nitrile rubber (0.4mm).
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes).

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

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9. Physical and Chemical Properties

Form:	Liquid
Colour:	Off-white
Odour:	Mineral oil-like
pH Value:	3.9-4.4 (1 % (m), 25°C)
Boiling point:	> 100°C
Flash Point:	101°C
Self-ignition:	Not self-igniting
Explosion hazard:	Not explosive
Fire promoting properties:	Not fire propagating
Density:	Approx. 1.1 g/cm^3 (20°C)
Solubility in water:	dispersible
Miscibility with water:	miscible

Other information:
If necessary, information on other physical and chemical parameters is indicated in this section.

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10. Stability and Reactivity

Conditions to avoid
Avoid extreme temperatures. Avoid freezing. Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid
Reactive chemicals, strong oxidizing agents

Hazardous reactions
No hazardous reactions when stored and handled according to instructions.
No hazardous decomposition products if stored and handled as prescribed/indicated.

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11. Toxicological Information

Acute toxicity
LD50 rat (oral): > 2,000 mg/kg
Irritation
Primary skin irritation rabbit:
Primary irritations of the mucous membrane rabbit:

Respiratory/Skin Sensitisation
Assessment of sensitisation:
There is no evidence of a skin-sensitizing potential.

Germ Cell Mutagenicity
Assessment of mutagenicity:
No data was available concerning mutagenic activity. The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity
Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive Toxicity
Assessment of reproduction toxicity:
Contains a component that causes reproductive toxicity in test animals.

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12. Ecological Information

Ecotoxicity

Toxicity to fish:
LC50 > 100 mg/l, Fish

Aquatic invertebrates:
EC50 (96 h) > 100 mg/l, Daphnia

Mobility
Assessment transport between environmental compartments:
Adsoption to soil phase is expected.

Persistence and Degradability
Assessment biodegradation and elimination (H20):
The polymer component of the product is poorly biodegradable.

Bioaccumulation Potential
Assessment bioaccumulation potential:
Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

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13. Disposal Considerations

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

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14. Transport Information

Road and Rail Transport:
Not classified as dangerous goods by the criteria of the “New Zealand NZS 5433:2012 Transport of Dangerous Goods on Land.”

Sea Transport
IMDG: Not classified as dangerous goods under transport regulations

Air Transport
IATA/ICAO: Not classified as dangerous goods under transport regulations

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15. Regulatory Information

HSNO. Group Standard: (HSR002544 - Additives, Construction Products (Subsidiary Hazard) Group Standard 2017).

Other Registration status
AICS, AU released/listed

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16. Other Information

Recommended use: road compaction and cohesion stabilisation aid

Any other intended applications should be discussed with the manufacturer.

Abbreviations
AICS – Australian Inventory of Chemical Substances
EN - European Standard
HSNO- Hazardous Substances and New Organisms
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods Code
ISO - International Organization for Standardization
NZS – New Zealand Standards
PPE – Personal Protective Equipment

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