



Safety Data Sheet: GRT: CC

GRT Safety Data Sheet

Version: 2.0

Date /Revised: 30/10/2019

Product: **GRT: CC**

1. Substance/preparation and manufacturer/supplier identification

GRT: CC

Uses: Coagulant, Clarifier for water treatment

Manufacturer/supplier

Global Road Technology Holdings Pty Ltd (ACN: 169 947 139)

4 Activity Court

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AUSTRALIA

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Emergency Information

Poison Information Centre (Australia): 131 126

National Poisons Centre (New Zealand): 0800 POISON (0800 764 766)

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2. Hazard Identification

Classified as non-hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

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

2.1 Other Hazards

Spills produce extremely slippery surfaces.

3. Composition/information on Ingredients

Hazardous components

Contains no reportable hazardous substances.

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. No hazards which require special first aid measures.

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. Alternatively, rinse immediately with Diphoterine®. Consult an eye specialist.

On ingestion

Rinse mouth immediately and then drink plenty of water. DO NOT induce vomiting. Seek medical attention if symptoms occur.

5. Fire-Fighting Measures

Suitable extinguishing media

Water, Dry powder, Foam, Water spray, Carbon dioxide (CO₂)

Unsuitable extinguishing media for safety reasons:

None

Additional information

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

Specific hazards

Carbon oxides (COx). Nitrogen oxides (NOx). Hydrogen Chloride. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

Special protective equipment

Wear a self-contained breathing apparatus and protective suit.

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. Spills produce extremely slippery surfaces. Will not burn until water is evaporated.

6. Accidental Release Measures

Personal precautions

Use personal protective equipment (PPE). Do not touch or walk through spilled material. Spills produce extremely slippery surfaces

Environmental precautions

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

Methods for cleaning up or taking up

Small spills:

Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Large spills:

Do not flush with water. Dam up. Clean up promptly by scoop or vacuum.

Residues: Pick up with inert absorbent material. Dispose of absorbed material in accordance with regulations. After cleaning, flush away traces with water.

7. Handling and Storage

Handling

Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smoke.

Protection against fire and explosion:

Take precautionary measures against static discharges.

Storage

Further information on storage conditions: Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

8. Exposure controls and personal protection

Control parameters

Occupational exposure limits: None

Appropriate Engineering controls:

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Personal protective equipment

Respiratory protection:

No personal respiratory protective equipment normally required.

Hand protection:



PVC or other plastic material gloves.

Eye protection:

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

Skin protection:

Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

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.

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment.

9. Physical and Chemical Properties

Form:	Clear Liquid
Colour:	Slightly yellow
Odour:	None
pH Value:	4 - 8 (1% aq., 25°C)
Boiling point:	> 100°C
Flash Point:	Does not flash
Self-ignition:	Not self-igniting
Explosion hazard:	Not expected to be explosive based on the chemical structure
Fire promoting properties:	Not fire propagating
Density:	Approx. 1.1 g/cm ³ (20°C)
Solubility in water:	Completely miscible
Miscibility with water:	miscible

Other information:

None

10. Stability and Reactivity

Reactivity

Stable under recommended storage conditions

Conditions to avoid

Protect from frost, heat and sunlight

Substances to avoid

Reactive chemicals, strong oxidizing agents

Hazardous reactions

None known

Hazardous decomposition products

Thermal decomposition may produce: Carbon oxides (CO_x). Nitrogen oxides (NO_x). Hydrogen Chloride. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

11. Toxicological Information

Acute toxicity

LD50 rat (oral): > 5,000 mg/kg

Acute dermal toxicity:

LD50 rat (dermal): >5,000 mg/kg

Acute inhalation toxicity:

Testing by inhalation route is inappropriate because exposure of humans via inhalation is unlikely; the substance has no vapour pressure and there is practically no exposure to inhalable aerosols.

Irritation

Primary skin irritation rabbit: Not Irritating

Eye irritation: Slightly irritating

Respiratory/Skin Sensitisation

Assessment of sensitisation:

There is no evidence of a skin-sensitizing potential. No respiratory sensitisation has been observed in the workplace.

Germ Cell Mutagenicity

Assessment of mutagenicity:

Not Mutagenic

Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive Toxicity

Assessment of reproduction toxicity:

By analogy with similar substances, this substance is not expected to be toxic for reproduction.

STOT – single exposure: No known effects

STOT – repeated exposure No known effects

Aspiration hazard: No hazards resulting from the material as supplied.

12. Ecological Information

Ecotoxicity

Acute Toxicity to fish:

LC50 / Danio rerio / 96 hrs = 10 – 100 mg/L

Acute Aquatic invertebrates:

EC50 (48 h), 10 - 100 mg/l, Daphnia magna

Chronic toxicity to fish: No data available

Chronic toxicity to invertebrates: No data available.

Toxicity to microorganisms: EC0 / Activated sludge / 0.5h – 1,000 mg/L (OECD 209)

Effects on terrestrial organisms: Exposure to soil is unlikely.

Sediment toxicity: Exposure to sediment is unlikely.

Persistence and degradability

Degradation: Not readily biodegradable
Hydrolysis: Does not hydrolyse.
Photolysis: No data available

Bioaccumulative potential

Not bioaccumulating.
Partition co-efficient (Log Pow) <0
Bioconcentration factor (BCF): ~ 0

Mobility in soil

Assessment transport between environmental compartments:

Adsorption to soil phase is expected.

Koc: ~0

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.

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

15. Regulatory Information

Classified as non-hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Poisons Schedule: Not scheduled

Other Registration status

AICS, AU released/listed

16. Other Information

Coagulant for water clarification. 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

PPE – Personal Protective Equipment

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