

Material Safety Data Sheet

DamClear Clarity Aid C

DamClear Clarity Aid C is a water soluble salt, supplied in crystal form which is used for clarification of water contaminated with finely suspended clays in dams and sedimentation basins. It is also used for removal of nutrients such as phosphate from water and fluoride from industrial wastewater.

1.0 Product Identification

Identifier	Classification
Chemical Formula	CaCl ₂ .2H ₂ O
U.N. No.	Not assigned
Hazchem:	Not assigned
Packaging Group:	Not assigned
D.G. Class:	Not assigned
Poisons Schedule:	No data available
CAS No.	10035-04-8
Product Identification:	DamClear Clarity Aid C, Calcium chloride dihydrate

2.0 Health Hazard & First Aid Information

Non Dangerous Goods according to Australian Dangerous Goods Code (ADG CODE).

Hazardous according to Australian Standard Commodity Classification (ASCC) [NOHSC:1008 (2004)]

Categories	Xi	Irritant
Risk Phrases	R36	Irritating to eyes
Safety Phrases	S25 S26 S36/39	Avoid contact with eyes In case of contact with eyes, rinse immediately with plenty of water & seek medical advice. Wear suitable protective clothing and eye/face protection.
HSNO Hazard Classification	6.1D, 6.3A, 6.4A, 9.3C	

3.0 Chemical & Physical Data

Characteristic	Technical Data
Chemical type:	Inorganic salt
Physical Form :	Solid, granular, fine crystals or flakes
Colour:	White
pH (1% solution):	Approx 8-10
Boiling Point:	> 1,600 °C
Water Solubility:	42.7 g/100 mL
Odour:	Odourless
Flash Point:	No data available
Bulk Density:	1.85 g/cm ³

4.0 Health Hazard & First Aid Information

Exposure Type	Risk	First Aid
Inhalation:	Breathing in dust may result in respiratory irritation.	Remove affected person to fresh air. Remove contaminated clothing & loosen remaining clothing. Allow patient to assume most comfortable position & keep warm and at rest until fully recovered. If recovery is delayed seek medical advice.
Skin Contact:	Prolonged or repeated skin contact may lead to allergic contact dermatitis in some individuals. The skin may react by producing redness, irritation, weals or postules.	Remove contaminated clothing and wash skin thoroughly with soap and water. If irritation occurs seek medical advice.
Skin Absorption:	Low.	Unlikely to be absorbed through skin.
Eye Contact:	An eye irritant. May cause some irritation which should cease on removal of product.	If eye contact occurs, irrigate with water for 15 minutes. If there is any irritation seek medical attention.
Ingestion:	No adverse effects expected Large amounts may cause nausea and vomiting.	Do not induce vomiting. If unconscious do not give anything by mouth. Check for breathing and pulse, if present place in the recovery position and obtain medical attention. If conscious rinse out the mouth with water. Obtain medical attention immediately.
Toxicity data:	Rabbit: 1,000 mg/kg	
Advice to doctor:	Treat symptomatically based on judgement of doctor and reactions of patient.	

5.0 Product Handling Information

Exposure Type	Precautions
Handling:	Ensure an eye bath and safety shower are available and ready for use.
Exposure Standards:	None allocated.
Biological Limit Values:	No information available.
Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Use a system for ventilation where appropriate.
Respiratory Protection:	Wear an effective dust mask (P2 filter) where dusts are generated and where ventilation engineering controls are inadequate.
Hand Protection:	Suitable skin protection should be worn when using this product, PVC or neo-prene gloves (AS2161). DO NOT use leather or cotton gloves.
Eye Protection:	Suitable eye protection should be worn when using this product, safety glasses with eye shields or goggles.
Skin and Body Protection:	Light weight protective clothing. Chemical resistant coveralls & safety footwear (ADS3765).
Storage:	Store in a cool, dry well ventilated area. Protect against physical damage. Keep bags sealed when not in use. Product is hygroscopic and will adsorb moisture from atmosphere when exposed to air. Protect from direct sunlight and moisture. Store away from incompatible materials.
Mixing With Water:	Dissolution is exothermic, the solution becomes warm to hot, with temperatures in excess of 65°C, depending on concentration. Check suitability of plastic containers when used for dissolving in water.

6.0 Fire Fighting, Reactivity Data and Fire & Explosion Hazard Data

Characteristic	Risk Data
Incompatibility:	Avoid contact with reactive chemicals. Incompatible with methyl vinyl ether, bromine trifluoride, acids, bases, water, zinc and sources of ignition.
Hazardous Decomposition Products:	Non-combustible solid. Product does not burn. Negligible fire hazard when exposed to heat or flame. No decomposition if stored and applied as directed. When involved in a fire, this product may generate toxic fumes including chlorine, oxides of calcium, and calcium hydroxide is formed on reaction with strong bases.
Fire & Explosion Data:	Non flammable. Non explosive.
Extinguishing Media:	Product is a non-flammable solid. In case of fire use appropriate extinguishing media most suitable for surrounding fire conditions. Suitable media include fine water spray, normal foam, dry powder or carbon dioxide.
Special protective Precautions & Equipment for Fire Fighters:	Fire fighters should wear a positive pressure, self contained breathing apparatus (SCBA) and protective fire fighting clothing (helmet, coat trousers, boots and gloves). Clear fire area of all non-emergency personnel. Keep out of low areas. Stay upwind. Eliminate ignition sources. Move fire exposed containers from the fire area if it can be done without risk. Do not allow fire water to reach waterways., sewers or drains. Store water for treatment. Dike area to prevent run-off and contamination of water sources.
Hazardous Reactions:	Polymerisation may occur. Metals will slowly corrode in aqueous solutions. Aluminium and yellow brass will be attacked.
Hazchem Code:	N/A

7.0 Spills & Waste Disposal

Parameter	Risk Data
Personal Precautions:	Use personal protective equipment.
Environmental Precautions:	Avoid accidents. Clean up immediately. Do not let product enter drains, waterways or sewer system.
Waste Disposal:	Wastes should be disposed of in accordance with requirements of local, state or federal government authorities.
Procedures For Clean Up	Sweep and shovel dry product into containers suitable for disposal or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly as hazardous waste. Wash area down with excess water.

8.0 Eco Toxicity

Species	Data
Pimephales Promelas	LC50/96 hr = 4,630 mg/L
Daphnia Magna:	EC50/48 hr = 2,400 mg/L
Selenastrum Capricornutum	EC50/72 hr = 2,900 mg/L

9.0 Contact Point

Telephone: Australia: 02 6685 5157, International +61 2 6685 5157

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