

Material Safety Data Sheet

DamClear Clarity Aid CL

DamClear Clarity Aid CL is a water soluble salt, supplied in liquid 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 (solution)
U.N. No.	Not assigned
Hazchem:	Not assigned
Packaging Group:	Not assigned
D.G. Class:	Not assigned
Poisons Schedule:	No data available
Product Identification:	DamClear Clarity Aid CL, Calcium chloride dihydrate solution
Composition:	
Calcium chloride dihydrate:	CAS No. 10035-04-8 40 - 50%
Water:	CAS No. 7732-18-5 50 - 60%

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

<i>Characteristic</i>	<i>Technical Data</i>
Chemical type:	Inorganic salt
Physical Form :	Liquid
Colour:	Colourless
pH (1% solution):	Approx. 8-10
Boiling Point:	100-105 °C
Vapour pressure:	Not available.
Water Solubility:	Completely miscible with water
Odour:	Odourless
Flash Point:	No data available
Specific gravity:	1.25 g/cm ³

4.0 Health Hazard & First Aid Information

<i>Exposure Type</i>	<i>Risk</i>	<i>First Aid</i>
Inhalation:	No vapour, product is non volatile. Mist may result in irritation to mucous tissue.	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

<i>Exposure Type</i>	<i>Precautions</i>
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 mask where mists 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 containers sealed when not in use. Protect from direct sunlight and from freezing. Store away from incompatible materials.

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:	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 liquid. 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	Use sand or other compatible adsorbents to contain wet product. Dike area to prevent run-off and contamination of water sources. Residues or small spillage may be hosed away with large quantities of water.

8.0 Aquatic Toxicity

Species	Data
Pimephales Promelas	LC50/96 hr >8,000 mg/L
Daphnia Magna:	EC50/48 hr >5,000 mg/L
Selenastrum Capricornutum	EC50/72 hr >5,600 mg/L

9.0 Contact Point

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

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