

Material Safety Data Sheet

DamClear Clarity Aid CS

DamClear Clarity Aid CS is a sparingly soluble, inorganic salt, supplied in powder form which is used for clarification of water contaminated with finely suspended clays in dams and sedimentation basins.

1.0 Product Identification

Identifier	Classification
Chemical Formula	CaSO ₄ .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.	10101-41-4
Product Identification:	DamClear Clarity Aid CS, Calcium sulphate dihydrate, gypsum.

2.0 Health Hazard & First Aid Information

ADG Code:	Non Dangerous Goods according to Australian Dangerous Goods Code.
ASCC Hazard Classification	Not Hazardous according to Australian Standard Commodity [NOHSC:1008 (2004)]
Categories	
Risk Phrases	
Safety Phrases	
HSNO Hazard Classification	
Poisons Schedule (Aust)	

3.0 Chemical & Physical Data

Characteristic	Technical Data
Chemical type:	Inorganic salt
Physical Form :	Solid grade product, powder
Colour:	White to off white
pH (1% solution):	Approx. 7
Boiling Point:	No data available
Water Solubility:	0.21 g/100 mL
Odour:	Low to odourless
Flash Point:	No data available
Bulk Density:	2.32 g/cm ³
Decomposition Temperature	1,450 °C

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4.0 Health Hazard & First Aid Information

Exposure Type	Risk	First Aid
Inhalation:	Breathing in dust may result in respiratory irritation. This product contains crystalline silica. Prolonged exposure to crystalline silica can cause cancer.	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.	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. Temporary irritation to gastro-intestinal tract may occur.	No harmful effects expected. No specific recommendations.
Toxicity data:	Rabbit: >2,000 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. Observe good hygiene practices. Take precautionary measures against static discharges by bonding and grounding equipment.
Exposure Standards:	None allocated, but exposure standard for dust is 3 mg/m ³ Wear dust mask when handling this product.
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 (NIOSH/MSHA - approved) particulate respirator 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).
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. Protect from direct sunlight and moisture. Store away from incompatible materials.
Mixing With Water:	Dissolution in water is only partial. Product will form a slurry.

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

Characteristic	Risk Data
Chemical stability:	Product is stable under normal conditions of use, storage and temperature.
Incompatibility:	No data available.
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. Above 1,450 °C this product may generate toxic fumes, oxides of calcium and sulphur dioxide.
Fire & Explosion Data:	Non flammable. Not expected to burn. Product is a dust/powder, therefore follow appropriate procedures to minimise risk of static discharge which could otherwise result in explosion.
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
Flashpoint:	No data available

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. Slippery when wet. Transfer to a suitable, labelled container and dispose of promptly. Wash area down with excess water. Personnel involved in clean up should wear full protective clothing.

8.0 Eco Toxicity

Species	Data
Pimephales Promelas	LC50/96 hr = >1,970 mg/L
Daphnia Magna	EC50/48 hr = >1,970 mg/L
Selenastrum Capricornutum	EC50/72 hr = >100 mg/L

Note: Limited data is available on the aquatic toxicity of Calcium Sulphate

9.0 Contact Point

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

The information contained in this Material Safety Data Sheet is given in good faith. It is accurate to the best of our knowledge. The information provided in this Material Safety Data Sheet does constitute or replace the users own assessment of workplace risks as required by health and safety legislation, both Federal and State.

Environmental Warehouse (Aust) Pty. Ltd. makes no guarantee for results obtained, and assumes no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal, state, and local laws and regulations.