

SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND COMPANY INFORMATION

Product name	DamClear Clarity Aid CL
Product code	Clarity Aid CL
Product use	Clarification aid for water treatment
Company name	Hydroflux Utilities Pty Ltd trading as Environmental Warehouse Level 26, 44 Market Street SYDNEY NSW 2000 www.envirowarehouse.com.au e: info@hydrofluxutilities.com.au t: 61 2 9089 8833 f: 61 2 9089 8830

13 11 26 (Poison Information Hotline)

SECTION 2 - HAZARD IDENTIFICATION

HAZARDS

Emergency number

Hazard Class	Category*	Hazard Statement	Signal Word
Skin corrosion/irritation	2	Causes skin irritation	Warning
Serious eye damage/eye irritation	2	Causes serious eye irritation	Warning

 * Hazard categories can range from 1–5, with 1 being the highest rated hazard.

LABEL ELEMENTS

Pictogram

Signal word



Clarity Aid CL SDS - Rev 1.1, September 2022



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PRECAUTIONARY STATEMENTS - to accompany each hazard statement.

Hazard Statement	Prevention	Response	Storage	Disposal
Causes skin irritation	Wash hands thoroughly after handling.	IF ON SKIN: Wash with plenty of soap and water.	-	-
	Wear protective gloves.	Specific treatment: see Section 4 - First Aid Measures on this Safety Data Sheet.		
		If skin irritation occurs: Get medical advice.		
		Take off contaminated clothing and wash before reuse.		
Causes serious eye irritation	Wash hands thoroughly after handling.	IF IN EYES: Rinse cautiously with water for several	-	-
	Wear eye protection and protective gloves.	minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
		If eye irritation persists: Get medical advice.		

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

DESCRIPTION Calcium salts in water

INGREDIENTS	Chemical name	CAS No.	Proportion, %
	Calcium chloride anhydrous	10043-52-4	25-40
	Other non-hazardous ingredients	-	to 100

SECTION 4 - FIRST AID MEASURES

GENERAL ADVICE

- Take appropriate precautions to ensure your own health and safety before providing first aid.
- If a doctor or paramedic is consulted, provide them with this Safety Data Sheet.

SKIN

- Remove all contaminated clothing and footwear.
- Flush affected skin area with large amounts of running water until it no longer feels greasy or slippery.
- If redness, irritation, swelling or blistering occurs, seek medical attention without delay.



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EYE

- Immediately wash out affected eye and surrounding area with fresh running water.
- Ensure complete irrigation of the eye keep eyelids apart and away from eye, move eyes up, down and to either side while irrigating.
- Continue irrigating for at least 15 minutes. If the eye feels as though it still contains grit/dust or a foreign object, continue to irrigate.
- If irritation or discomfort occurs after complete irrigation, seek medical attention without delay.

SWALLOWED

- If swallowed do NOT induce vomiting.
- If conscious, washout mouth and give water to drink.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- If reflexive vomiting occurs, rinse mouth and repeat administration of water.
- If swallowed and patient begins to feel unwell, seek medical attention without delay.

INHALED

- Immediately remove patient to fresh air.
- Lay patient down, keep warm and rested.
- If symptoms develop, seek medical advice.

NOTES TO DOCTOR OR PARAMEDIC

• Treat symptomatically.

SECTION 5 - FIREFIGHTING MEASURES

FIRE HAZARD

- This product is not combustible.
- This product may decompose under fire conditions to produce hydrogen chloride gas and other toxic fumes.

HAZCHEM CODE

• None assigned.

EXTINGUISHING MEDIA

- This product does not create any restrictions for extinguishing media to be used on a surrounding fire.
- Use extinguishing media suitable for burning materials in the surrounding fire.

PRECAUTIONS FOR FIREFIGHTERS AND SPECIAL PROTECTIVE EQUIPMENT

- In case of fire, wear a liquid-tight chemical protective suit with breathing apparatus.
- Wear chemical resistant gloves and chemical resistant boots.



SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

- Restrict access to area until clean-up operations are complete.
- Ventilate spill area if possible.
- Avoid contact with skin and eyes.
- Use personal protective equipment recommended in Section 8 of this Safety Data Sheet.

MINOR SPILLS

- Prevent further leakage or spillage if safe to do so.
- Contain spill with sand, soil or inert material.
- Do not let product enter drains or waterways.
- Clean up all spills immediately.
- Clean spill using a moist cloth or paper towel if the spill is dropwise; if the spill is larger then cover and absorb with sand, soil or inert material and shovel away.

MAJOR SPILLS

- Alert Fire Brigade and tell them the location and nature of hazard.
- Show this Safety Data Sheet to the Fire Crew in attendance.
- Contain and absorb spill with sand, soil or inert material.
- Prevent spillage from entering drains or water ways. Spilled product may pose a risk to the aquatic ecosystem if released. If contamination of drains or waterways occurs, advise Emergency Services.
- Use retention basins for storage before discharge or disposal.

SECTION 7 - HANDLING AND STORAGE

HANDLING

- Eliminate personal contact. Do not get in eyes, on skin, or on clothing.
- Wear protective clothing recommended in Section 8 of this Safety Data Sheet when risk of exposure may occur.
- Use with adequate ventilation.
- Avoid generating splashes.
- Keep the containers tightly closed when not in use.
- Ensure all containers are labelled.
- Have emergency equipment (for fires, spills, etc.) readily available.
- Do not use incompatible material for product transfer or dosing equipment (see Section 10 "Materials To Avoid" on this Safety Data Sheet).

STORAGE CONDITIONS

- Store in original container.
- Store the containers tightly closed.
- Store in a cool, dry, well-ventilated area. Avoid storage in direct sunlight.
- Store away from incompatible materials (see Section 10 "Materials To Avoid" on this Safety Data Sheet).



SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS

• None assigned.

ENGINEERING MEASURES

• General ventilation is recommended.

EXPOSURE CONTROL MEASURES

• Wear standard protective clothing and protective gloves.

PERSONAL PROTECTION

We recommend as a minimum precaution the use of safety glasses with side-shields and work clothes protecting arms, legs and body, fully enclosed safety boots/gumboots and gloves.

Respiratory Protection

• Respiratory protection is not normally needed.

Hand Protection

• Gloves made from Viton, polyvinyl chloride (PVC), natural rubber, neoprene.

Skin Protection

• Wear standard protective clothing and protective gloves.

Eye Protection

- At a minimum wear safety glasses with side-shields.
- Tight-fitting safety goggles are recommended.

Hygiene Recommendations

- Use good work and personal hygiene practices to avoid exposure.
- Always wash and clean yourself thoroughly after handling this and other chemicals.
- If clothing is contaminated, remove clothing and discard or launder. Launder contaminated clothing separately and before reuse.
- When handling this product never eat, drink or smoke.

ENVIRONMENTAL EXPOSURE CONTROL PRECAUTIONS

• Consider the provision of containment around storage vessels.



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Colourless
Odour	Nil
рН	7-8
Freezing point	<-5°C
Boiling point	>105°C
Flash point	Not flammable
Explosive limits	Not flammable
Specific gravity	1.30-1.35
Solubility in water	Miscible (complete)
Viscosity	3-8 cP @ 20°C

SECTION 10 - STABILITY AND REACTIVITY

STABILITY

- Stable under normal conditions.
- Hazardous polymerization will not occur.

CONDITIONS TO AVOID

• Extremes of temperature.

MATERIALS TO AVOID

- Oxidising material.
 - » Contact with strong oxidizers (e.g. chlorine, hypochlorites, peroxides, chromates, nitric acid, perchlorates, permanganates etc.) may generate heat, fires, explosions, and toxic vapours.

HAZARDOUS DECOMPOSITION PRODUCTS

• Under fire conditions: hydrogen chloride gas.



SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity*	$ \begin{array}{llllllllllllllllllllllllllllllllllll$
Skin corrosion/irritation	Cause skin irritation
Serious eye damage/irritation	Causes serious eye irritation
Respiratory sensitisation	No information available
Skin sensitisation	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	Not listed as a human carcinogen (IARC)
Reproductive toxicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Aspiration hazard	No information available

* The acute toxicity data (LD₅₀) for Clarity Aid CL has been derived by extrapolating values for calcium chloride anhydrous (CAS No. 10043-52-4).

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION

The acute toxicity data (LC₅₀) for Clarity Aid CL has been derived by extrapolating values for calcium chloride anhydrous (CAS No. 10043-52-4).

Acute Toxicity - Fish	
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Acute Toxicity - Invertebrate Species

Species	Exposure	LC ₅₀	Spe	ecies	Exposure	LC ₅₀
Bluegill	96 hour	>5,000 mg/L	Da	aphnia magna	48 hour	>700 mg/L

PERSISTENCE AND DEGRADABILITY

- No information available.
- This product consists of inorganic compounds only and will degrade via hydrolysis.

BIOACCUMULATION POTENTIAL

• No information available.

MOBILITY IN SOIL

• No information available.



SECTION 13 - DISPOSAL CONSIDERATIONS

- Dispose of this product and its container in accordance with local, state and federal regulations.
- Dispose of any wastes in an approved waste treatment plant in accordance with applicable regulations.
- Do not dispose of this product or wastes in drains, waterways, sewers or with normal garbage.
- Do not reuse empty container for any purpose except to store this chemical.
- Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 - TRANSPORT INFORMATION

Not classified as a dangerous good - Australian Code for the Transport of Dangerous Goods by Road & Rail.

UN number	-
Proper shipping name	-
Transport hazard class	-
Subsidiary hazard	-
Packing group number	-
Hazchem code	-
EPG	-

SECTION 15 - REGULATORY INFORMATION

Safe Work Australia	»	This Safety Data Sheet (SDS) has been prepared in accordance with the Model Work Health and Safety Regulations 2021 (Safe Work Australia).
GHS	»	The hazards of this product (Section 2 of this SDS) are classified in accordance with the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).
AICIS	»	All ingredients in this product comply as per the Australian Industrial Chemicals Introduction Scheme (AICIS).
AIIC	»	All ingredients in this product are either listed or are exempt from listing in the Australian Inventory of Industrial Chemicals (AIIC).
POISON Schedule	»	Not scheduled as part of the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).



SECTION 16 - OTHER RELEVANT INFORMATION

Revision date	8 September 2022
Revision number	1.1 (Minor update to Section 13)
Information sources	 Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, July 2020 (Safe Work Australia).
	» Australian Code for the Transport of Dangerous Goods by Road & Rail, Edition 7.7. 2020.
	» Safety Data Sheets from our suppliers of raw material.
	» Poisons Standard June 2022 - Australian Government Therapeutic Goods Act 1989.
	» Model Work Health and Safety Regulations, January 2021 (Safe Work Australia).
	» Hazardous Substance Information System (Safe Work Australia).
	 Globally Harmonised System of Classification and Labelling of Chemicals (GHS) 7th Edition, United Nations 2017.
	 Agents Classified by the IARC Monographs, Volumes 1–120. World Health Organisation (WHO) International Agency for Research on Cancer (IARC).
Acronyms and abbrev	iations
ALCIC Austr	alian Industrial Chamicals Introduction Scheme

AICIS	Australian Industrial Chemicals Introduction Scheme.
AIIC	Australian Inventory of Industrial Chemicals.
CAS No.	Chemical Abstracts Service registration number (sometimes referred to as CASRN).
сР	Centipoise (dynamic viscosity).
°C	Degrees Celsius.
EPG	Emergency Procedure Guide - Transport: Australian Standards AS 1678 (series).
GHS	Global Harmonised System (of Classification and Labelling of Chemicals - United Nations).
Hazchem code	Hazchem Emergency Action Code (also known as an Emergency Action Code or EAC). A British Fire Service code system to provide immediate action advice to emergency services when attending an incident involving dangerous goods.
IARC	International Agency for Research on Cancer. A specialised cancer agency of the World Health Organisation (WHO) that provides a global reference for cancer information.
LC ₅₀	Lethal concentration, 50%. The concentration of material (in air or water) that will cause 50% of the test population to perish.
LD 50	Lethal dose, 50%. The quantity of material when administered all at once that will cause 50% of the test population to perish.
mg/kg	Milligrams per kilogram.
mg/L	Milligrams per litre.



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Acronyms and abbreviations

рН	A scale used to express the acidity or basicity of dilute water solutions. pH is defined as the negative logarithm of the hydronium ion (H_3O^*) activity in water-based solutions. Practical application of pH best suited to aqueous solutions with an ionic strength < 0.1 moles/kilogram and a pH between 1–13.
PVC	Polyvinyl chloride.
Rev	Revision.
SDS	Safety Data Sheet.
STOT	Specific target organ toxicity.
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons (Poisons Standard - Australia).
UN	United Nations (number). United Nations Committee of Experts on the Transport of Dangerous Goods.
>	Greater than.
<	Less than.

The information contained in this Safety Data Sheet is based on our best present knowledge and experience. It is intended to convey information about the chemical health and safety hazards of our product for health and safety reasons only. The data is not a guarantee of specific properties of this product.

This product is to be used in applications consistent with our product literature.

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations.