
SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND COMPANY INFORMATION

Product name	DamClear Clarity Aid PD
Product code	Clarity Aid PD
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.enviowarehouse.com.au e: info@hydrofluxutilities.com.au t: 61 2 9089 8833 f: 61 2 9089 8830
Emergency number	13 11 26 (Poison Information Hotline)

SECTION 2 - HAZARD IDENTIFICATION

HAZARDS

Hazard Class	Category*	Hazard Statement	Signal Word
Hazardous to the aquatic environment, short-term (Acute)	3	Harmful to aquatic life	-
Hazardous to the aquatic environment, long-term (Chronic)	3	Harmful to aquatic life with long lasting effects	-

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

LABEL ELEMENTS

Pictogram	Not required
Signal word	Not required

PRECAUTIONARY STATEMENTS - to accompany each hazard statement

Hazard Statement	Prevention	Response	Storage	Disposal
Harmful to aquatic life	Avoid release to the environment (if this is not the intended use).	-	-	Dispose of contents and container to an approved waste disposal plant.
Harmful to aquatic life with long lasting effects	Avoid release to the environment (if this is not the intended use).	-	-	Dispose of contents and container to an approved waste disposal plant.

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

DESCRIPTION	Polymerised cationic monomer in solution.		
INGREDIENTS	Chemical name	CAS No.	Proportion, %
	Ingredients not deemed to be hazardous	-	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.
- With a clean cloth or paper towel, blot or wipe away any excess product before flushing with water.
- 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.

EYE

- Gently blot away excess material with clean cloth or paper towel then 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 area still feels greasy or slippery, continue to irrigate until it no longer feels greasy or slippery.
- 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.
- May evolve ammonia and hydrochloric acid gases under fire conditions.
- May produce oxides of carbon and nitrogen under fire conditions.

HAZCHEM CODE

- None assigned.

EXTINGUISHING MEDIA

- Use extinguishing media suitable for burning materials in the surrounding fire.
- This product does not create any restrictions for type of extinguishers or firefighting agents.

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.
- Spills may make the floor slippery, take care not to walk in spilled product.

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.

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.

STORAGE CONDITIONS

- Store in original container.
- Store the containers tightly closed.
- Store separately from oxidizers.
- Store in a cool, dry, well-ventilated area - avoid storage in direct sunlight.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS

- None assigned.

ENGINEERING MEASURES

- General ventilation is recommended.

EXPOSURE CONTROL MEASURES

- Wear personal protective clothing including gloves and safety glasses.

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. If prolonged exposure may occur, use a full-face respirator with multi-purpose cartridge that protects against chemical mists and vapours.

Hand Protection

- PVC gloves, rubber gloves.

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	Amber
Odour	Slight
pH	5–7
Freezing point	< 0°C
Boiling point	> 100°C
Flash point	Not flammable
Explosive limits	Not flammable
Specific gravity	1.03–1.08
Solubility in water	Miscible (complete)
Viscosity	1600–2400 cP

SECTION 10 - STABILITY AND REACTIVITY

STABILITY

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

CONDITIONS TO AVOID

- Extremes of temperature.

MATERIALS TO AVOID

- Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapours.

HAZARDOUS DECOMPOSITION PRODUCTS

- Under fire conditions: Oxides of carbon and nitrogen, may evolve ammonia and hydrogen chloride gases.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity	LD ₅₀ Oral rat >5,000 mg/kg
	LD ₅₀ Dermal rabbit >5,000 mg/kg
	LC ₅₀ Inhalation no information available
Skin corrosion/irritation	Not classified as a skin irritant
Serious eye damage/irritation	Not classified as an eye irritant
Respiratory sensitisation	Not classified as a respiratory sensitiser
Skin sensitisation	Not classified as a skin sensitiser
Germ cell mutagenicity	Not classified as a mutagen
Carcinogenicity	Not classified as a human carcinogen
Reproductive toxicity	Not classified as a reproductive toxicant
STOT - single exposure	No known effects
STOT - repeated exposure	No known effects
Aspiration hazard	No information available

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION

Acute Toxicity - Fish

Species	Exposure	LC ₅₀
Danio rerio	96 hour	> 10 mg/L

Acute Immobilisation - Invertebrate Species

Species	Exposure	EC ₅₀
Daphnia magna	48 hour	> 10 mg/L

- The immediate effects on aquatic organisms of this product are due to localised and non-systemic modes of action, e.g. suffocation or immobilization. These effects are quickly and significantly reduced by the presence of suspended and dissolved material in the aquatic environment.

PERSISTENCE AND DEGRADABILITY

- This product does not hydrolyse.
- This product is not readily biodegradable.

BIOACCUMULATION POTENTIAL

- This product is not expected to bioaccumulate. The number of carbon molecules in the polymer structure is very large and thus it is not able to transport across the cellular membrane.

MOBILITY IN SOIL

- No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Dispose of in accordance with local, state and federal regulations.
- Dispose of wastes in an approved waste treatment plant in accordance with applicable regulations.
- Do not dispose of wastes in local sewer or with normal garbage.
- Do not reuse empty container for any purpose except to store this chemical.

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).
AICC	» All ingredients in this product are either listed or are exempt from listing in the Australian Inventory of Industrial Chemicals (AICC).
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	11 July 2022
Revision number	1.0
Information sources	<ul style="list-style-type: none"> » 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 <i>Therapeutic Goods Act 1989</i>. » 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.

Acronyms and abbreviations

>	Greater than.
<	Less than.
AICIS	Australian Industrial Chemicals Introduction Scheme.
AICC	Australian Inventory of Industrial Chemicals.
CAS No.	Chemical Abstracts Service registration number (sometimes referred to as CASRN).
cP	Centipoise (dynamic viscosity).
°C	Degrees Celsius.

Acronyms and abbreviations

EC ₅₀	Half maximal effective concentration. A statistically derived value giving the median concentration of material in an environment expected to cause 50% of the test population to experience the given effect being monitored (i.e. immobilisation, imbalance etc.).
EPG	Emergency Procedure Guide - Transport: Australian Standards AS 1678 (series).
GHS	Globally 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.
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.
pH	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 ₃ O ⁺) 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.

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.