

AQUA ARMOR C-100 — AQUACULTURE WATER CLARIFIER

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

AQUA ARMOR C-100 — AQUACULTURE WATER CLARIFIER
Water clarifier / flocculant blend for aquaculture pond water treatment
CAS: Proprietary blend (not a single substance – polymeric coagulant/flocculant-type formulation; exact composition is Available on request)

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Water clarification/flocculation agent for aquaculture (shrimp/fish) pond water, used to settle suspended solids, colloidal turbidity and organic matter. For industrial and aquaculture-farm user only, dosed per supplier's application guidelines.
Uses advised against: All uses not specified in this section or in section 7.3. Not for direct human or animal consumption; not a substitute for proper pond water-quality management.

1.3 Supplier's details:

SURAJ CHEMICALS
No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India
Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281
Email: sales@surajchemicals.com | Website: www.surajchemicals.com
GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), based on class-typical data for coagulant/flocculant-type water-treatment formulations of this kind (e.g. polyaluminium/polymeric coagulant blends). Exact hazard classification for this specific proprietary formulation is Available on request from Suraj Chemicals.

Eye Irrit. 2	Eye irritation, Category 2, H319 (class-typical for concentrated coagulant/flocculant blends)
Skin Irrit. 2	Skin irritation, Category 2, H315 (class-typical, concentrate)

2.2 GHS label elements, including precautionary statements:

GHS: Warning

Hazard statements:

Skin Irrit. 2: H315 – Causes skin irritation.
Eye Irrit. 2: H319 – Causes serious eye irritation.

Precautionary statements:

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs, get medical advice/attention.
P501: Dispose of contents/container in accordance with local/regional/national regulations.

2.3 Other hazards which do not result in classification:

Not relevant. This product is designed for controlled dilution/dosing into pond water per label instructions; undiluted concentrate should be handled with the PPE specified in section 8.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable – this is a proprietary mixture, not a single substance.

3.2 Mixtures:

Chemical description: Proprietary blend of water-treatment coagulant/flocculant components (class-typical: inorganic/polymeric coagulant salts and water-soluble polymer flocculant aids) formulated for aquaculture pond water clarification.
In accordance with Annex 4.3.3 of the GHS, the following general information is provided. Exact ingredient identities and concentrations are proprietary and Available on request (subject to a confidentiality/business-need agreement) or in a medical emergency:

Identification	Chemical Name / Classification	Concentration
Proprietary	Inorganic/polymeric water-treatment coagulant and flocculant components – Skin Irrit. 2: H315; Eye Irrit. 2: H319 (class-typical) – Warning	Available on request

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16. Full ingredient disclosure is available on request for regulatory, medical-emergency or downstream-user purposes.

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Request medical assistance if symptoms persist, showing the SDS of this product.

By inhalation:

If dust/mist is inhaled during handling of concentrate, remove the person affected to fresh air. Seek medical attention if discomfort persists.

By skin contact:

Remove contaminated clothing. Wash skin thoroughly with plenty of water and soap. Seek medical advice if irritation persists.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes, holding eyelids apart. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

By ingestion/aspiration:

Rinse mouth with water. Do not induce vomiting. Seek medical advice if the concentrate is ingested or discomfort occurs.

4.2 Most important symptoms/effects, acute and delayed:

Concentrate may cause irritation of skin, eyes and respiratory tract on direct contact. No delayed effects known for this formulation at recommended dilution/dosing rates.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Treat symptomatically. Not relevant beyond standard first aid.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable: Water spray/fog, carbon dioxide (CO²), dry chemical powder, foam – select per surrounding fire
Unsuitable: None known

5.2 Specific hazards arising from the chemical:

Product is an aqueous-based/solid water-treatment formulation and is not expected to be flammable. No specific fire hazards identified for this product class.

5.3 Special protective actions for fire-fighters:

No special measures required specific to this product; use standard fire-fighting protective equipment and self-contained breathing apparatus in smoke-filled areas.

Additional provisions:

Not relevant

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Avoid contact with concentrate. Use personal protective equipment as per section 8. Ensure adequate ventilation.

For emergency responders:

Wear appropriate protective equipment. Standard precautions sufficient given the moderate hazard profile of the concentrate.

6.2 Environmental precautions:

Prevent large/undiluted spillages from entering drains, watercourses or ponds outside the intended dosing regime, as excessive uncontrolled dosing can affect aquatic organisms and water chemistry.

6.3 Methods and materials for containment and cleaning up:

Contain spillage; absorb liquid concentrate with inert absorbent material, or sweep up solid form, and place in suitable containers for reuse or disposal. Wash residual area with water.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:

Avoid unnecessary skin/eye contact with the concentrate. Dose into pond water strictly according to the product label/application guidelines; do not exceed recommended dosing rates.

B. Technical recommendations for the prevention of fires and explosions:

Not applicable – product is not classified as flammable.

C. Technical recommendations on general occupational hygiene:

Wash hands after handling. Avoid eating, drinking or smoking while handling the concentrate.

D. Technical recommendations to prevent environmental risks:

Prevent spillage of concentrate from entering drains or watercourses. Follow recommended dosing rates for pond application to avoid adverse effects on aquatic life.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

Minimum Temp.	5°C
Maximum Temp.	35°C
Maximum time	12 Months (in sealed original containers)

B. General conditions for storage:

Store in tightly closed original containers in a cool, dry, well-ventilated place away from direct sunlight and incompatible materials (see 10.5).

7.3 Specific end use(s):

For dosing into aquaculture pond water only, per the product's application/dosing guidelines. Not for other industrial water-treatment applications without prior consultation with Suraj Chemicals.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

No specific occupational exposure limit has been established for this proprietary formulation under the Factories Act, 1948. Specific component-level OELs are Available on request.

Identification	Occupational Exposure Limit Type	Value
Proprietary blend	No established OEL (product-specific)	Available on request

8.2 Appropriate engineering controls:

General ventilation is normally sufficient for dosing operations. Use local exhaust ventilation where handling concentrated product in enclosed spaces.

B. Respiratory protection:

Not normally required for dosing operations with adequate ventilation. Dust mask recommended if handling powder-form concentrate.

C. Specific protection for the hands:

Chemical-resistant gloves (nitrile or PVC) recommended when handling concentrate.

D. Eye and face protection:

Safety glasses or chemical splash goggles recommended when handling concentrate.

E. Bodily protection:

Normal industrial/farm work clothing; waterproof apron recommended for pond-dosing operations.

F. Additional emergency measures:

Eyewash station and washing facilities recommended in the work/dosing area.

Environmental exposure controls:

Follow recommended dosing rates; avoid overdosing pond water. See subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Liquid or free-flowing powder (grade dependent)
Appearance	Clear to slightly turbid liquid, or off-white/beige powder

Color	Available on request (grade dependent)
Odor	Mild, characteristic
Odour threshold	Not established
Volatility	
Boiling point at atmospheric pressure	Not relevant *
Vapour pressure at 20°C	Not relevant *
Evaporation rate at 20°C	Not relevant *
Product Description	
Density / Relative density at 20°C	Available on request (grade dependent)
Dynamic / Kinematic viscosity	Available on request
Concentration	Proprietary blend – Available on request
pH	Typically 4 – 8 (1% aqueous dilution, class-typical for coagulant/flocculant blends)
Vapour density at 20°C	Not relevant *
Partition coefficient n-octanol/water 20°C	Not relevant (water-soluble/dispersible formulation)
Solubility in water at 20°C	Soluble/dispersible (designed for dosing into pond water)
Decomposition temperature	Not established
Melting point/freezing point	Not relevant / Available on request
Flammability	
Flash Point	Non-applicable (aqueous-based formulation)
Flammability (solid, gas)	Not flammable
Autoignition temperature	Not relevant *
Lower / Upper flammability limit	Not relevant *
Particle Characteristics	
Median equivalent diameter	Available on request (powder grade)

* Not relevant due to the nature of the product, not providing information on the properties of its hazards.

9.2 Other information:

Explosive properties	Not explosive
Oxidising properties	Not oxidising
Corrosive to metals	Not expected to be corrosive at recommended dosing dilution
Heat of combustion	Not relevant
Surface tension at 20°C	Not established
Refraction index	Not established

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactivity expected under normal conditions of use and storage.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Avoid prolonged exposure to heat	Avoid prolonged direct exposure	Keep container closed to avoid moisture uptake (powder grades)

10.5 Incompatible materials:

Strong Oxidising Agents	Strong Acids/Bases
Avoid contact	Avoid contact – may affect coagulant/flocculant performance and stability

10.6 Hazardous decomposition products:

None known under normal conditions of use and storage.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

This formulation has not been separately toxicologically tested as a whole; the following is based on class-typical data for coagulant/flocculant water-treatment formulations of this kind. In case of exposure that is repetitive, prolonged, or at concentrations higher than recommended, adverse effects may result depending on the means of exposure:

A. Ingestion (acute effect):

Low acute oral toxicity expected for class-typical formulations; may cause gastrointestinal discomfort if concentrate is ingested.

B. Inhalation (acute effect):

Dust/mist may cause irritation of the respiratory tract with prolonged exposure to concentrate.

C. Contact with skin and eyes (acute effect):

Concentrate may cause skin and eye irritation on direct contact.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):

Classification criteria for carcinogenicity, mutagenicity and reproductive toxicity are not met based on available class-typical data. IARC: Not listed.

E. Sensitizing effects:

Classification criteria for respiratory or skin sensitisation are not met based on available data.

F. Specific target organ toxicity (STOT) – single exposure:

Classification criteria are not met based on available data.

G. Specific target organ toxicity (STOT) – repeated exposure:

Classification criteria are not met based on available data.

H. Aspiration hazard:

Not relevant.

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
Proprietary blend	LD50/LC50: Not separately established for this formulation – Available on request	–

SECTION 12: ECOLOGICAL INFORMATION

Designed for use in aquaculture ponds when dosed at recommended rates; excessive/uncontrolled dosing outside recommended rates may adversely affect aquatic organisms.

12.1 Toxicity:

Identification	Acute Toxicity	Species	Genus
Proprietary blend	Not separately established – Available on request	Not specified	Fish / Crustacean

12.2 Persistence and degradability:

Not established for this specific formulation; inorganic coagulant components are not expected to persist, while polymeric flocculant aids are expected to have low to moderate biodegradability, consistent with class-typical products.

12.3 Bioaccumulative potential:

Not established. Not expected to bioaccumulate based on class-typical data for this product category.

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
Not established	Not relevant	Not established	Not established

12.5 Results of PBT and vPvB assessment:

Not established for this formulation.

12.6 Other adverse effects:

Follow recommended dosing rates for aquaculture ponds; overdosing may reduce dissolved oxygen or otherwise affect pond water chemistry and aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Dispose of unused product/concentrate via a licensed waste contractor in accordance with local regulations; do not discharge undiluted concentrate directly into watercourses outside the intended controlled pond-dosing application. Empty containers should be rinsed and disposed of/recycled per local regulations.

Refer to national and local regulations on waste management.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-hazardous for transport
14.3 Transport hazard class(es)	Not classified
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22):

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-hazardous for transport
14.3 Transport hazard class(es)	Not classified
14.4 Packing group	N/A
14.5 Marine pollutant	No
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024):

14.1 UN number	Not assigned
14.2 UN proper shipping name	Non-hazardous for transport
14.3 Transport hazard class(es)	Not classified
14.4 Packing group	N/A
14.5 Environmental hazard	No
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
Water (Prevention and Control of Pollution) Act, 1974 (relevant to water-treatment/discharge applications)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). As this is a proprietary formulation, specific quantitative data noted as "Available on request" can be obtained from Suraj Chemicals for regulatory, medical-emergency or downstream-user purposes.

Texts of the legislative phrases mentioned in sections 2 and 3:

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

The phrases indicated do not refer to the product itself in all respects; they are class-typical for coagulant/flocculant-type formulations of this kind and are presented for informative purposes pending full component-level disclosure, available on request.

Advice related to training:

Minimal training is recommended to prevent risks for staff/farm personnel using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, the product label and the recommended dosing procedure.

Principal bibliographical sources:

Class-typical GHS classification references for aquaculture/water-treatment coagulant and flocculant formulations. Exact proprietary formulation data available on request from Suraj Chemicals.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET