SDS-SUNFLOC-ANI-MQ 13 Oct 2026

SAFETY DATA SHEET

SUNFLOC POLYELECTROLYTE ANIONIC MQ (POLYACRYLAMIDE)

CAS No.: 9003-05-8

This Safety Data Sheet is issued by Suraj Chemicals for its SunFloc range of polyelectrolytes, manufactured by Suraj Chemicals, based on product data and published GHS / regulatory reference data for polyacrylamide flocculants.

1. IDENTIFICATION

GHS Product identifier

SUNFLOC POLYELECTROLYTE ANIONIC MQ (POLYACRYLAMIDE)
Anionic acrylamide/acrylate copolymer flocculant
CAS: 9003-05-8

Other means of identification

Not relevant

Recommended use of the chemical and restrictions on use

Relevant uses: Flocculant for mineral processing, municipal and industrial water treatment, paper, textile and similar applications. For industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3. Not for use in direct contact with food/potable water unless the specific grade supplied is certified for that purpose.

Supplier's details

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS: Based on available data, this product does not meet the GHS classification criteria for physical, health, or environmental hazard classes.

GHS label elements, including precautionary statements

No hazard pictograms or signal word are required. General precautionary statement: in case of contact with eyes, rinse immediately with plenty of water and seek medical advice; wear suitable protective clothing and avoid generating/breathing dust (powder grade).

Other hazards which do not result in classification

Dust may be irritating to eyes, respiratory system and skin on prolonged/repeated contact (non-classifying effect; see section 11). Wetted material (powder or solution) is very slippery – slip hazard. Contains trace residual acrylamide monomer (see section 3.2), which is toxic and a suspected human carcinogen in its unreacted form; content is controlled to low ppm levels by the manufacturer.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Chemical description: Anionic polyacrylamide (partially hydrolysed acrylamide/sodium acrylate copolymer)

Identification	Chemical Name / Classification	Concentration
CAS: 9003-05-8	Polyacrylamide (anionic, partially hydrolysed) – Not classified	≥ 90% (powder grade, dry basis)

Mixtures

Liquid/emulsion grades additionally contain a carrier oil/surfactant system and water; exact formulation is proprietary. May contain trace residual unreacted acrylamide monomer (CAS 79-06-1), controlled to a low level in the polymer (the residual acrylamide content for this grade is stated in the specification sheet / Certificate of Analysis) – free acrylamide is classified Acute Tox. 3, Muta. 1B, Carc. 1B, Repr. 2, STOT RE 1. Exact residual monomer content for this grade is available on request via the Certificate of Analysis.

To obtain more information on the hazards of the components, consult sections 11, 12 and 16.

4. FIRST AID MEASURES

Description of necessary first-aid measures

By skin contact
Immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.

By eye contact
Flush with copious amounts of water for at least 15 minutes, separating the eyelids with fingers to assure adequate flushing. If irritation persists, call a physician.

By inhalation
Remove to fresh air. If necessary, get medical attention.

By ingestion
If swallowed and the person is conscious, immediately wash out mouth with water. Call a physician.

Most important symptoms/effects, acute and delayed

May be irritating to eyes, respiratory system and skin. Wetted material presents a slip hazard.

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

Not relevant

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Suitable: Water spray, dry chemical, carbon dioxide or appropriate foam.
Unsuitable: None known.

Specific hazards arising from the chemical

Combustible solid (powder grade) under prolonged fire exposure; fine dust dispersed in air may present a dust explosion hazard in confined/unventilated spaces. Emits toxic fumes (carbon monoxide, carbon dioxide, nitrogen oxides, ammonia) under fire conditions.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Avoid raising dust when fighting fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Exercise appropriate precautions to minimize direct contact with skin and eyes. Avoid generating dust. Wetted floors are extremely slippery – barricade area.

Environmental precautions

Avoid discharge to water bodies where practicable; contain spillage. Powder forms slippery gel-like surfaces when wetted.

Methods and materials for containment and cleaning up

Sweep up dry material with a spade and transfer to a dry, clean, lidded container for disposal/reuse. Avoid raising dust. For liquid/wetted spills, use absorbent material, then wash the area with water (rinse water will be slippery until diluted).

Reference to other sections

See sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate clothing and gloves. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Mechanical exhaust ventilation is recommended for powder handling. Keep away from ignition sources, heat and flame. Incompatible with strong oxidizing agents and food. No smoking at the working site.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from ignition sources, heat, flame and direct sunlight, in a tightly closed container. Protect powder grade from moisture (caking). Incompatible with strong oxidizing agents and food.

Specific end use(s)

No special requirement beyond the uses specified in section 1.2. Prepare stock solutions per manufacturer's dosing guidance (typically 0.1–0.5% w/v for powder grade) to avoid lump formation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

No specific occupational exposure limit is established for this formulation; general nuisance dust limits apply for the powder grade under the Factories Act, 1948 (as amended).

Appropriate engineering controls

Use local exhaust/dust extraction where available for powder handling. Safety shower and eye bath should be accessible.

B. Respiratory protection
Government-approved dust respirator if necessary (dusty conditions, powder grade).

C. Specific protection for the hands
Chemical-resistant protective gloves.

D. Eye and face protection
Chemical safety goggles.

E. Bodily protection
Appropriate protective clothing. No smoking, drinking or eating at the working site; wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties (Powder grade)

Item	Result
Physical state	Solid, granular/powder (white to off-white, water-soluble organic polymer)
Solid content	≥ 90%
Bulk density	0.72 – 0.78 g/cm³
pH (0.1% solution)	7.4 – 7.6
Soluble matter	> 99.2%
Insoluble matter	< 0.8%
Moisture and impurities	< 10%
Ionicity	Anionic (degree of hydrolysis grade-dependent)

Liquid/emulsion grade: physical properties are grade-dependent and available on request from Suraj Chemicals.

Other information (heavy metal content, powder grade, typical)

Item	Result
Cadmium	≤ 1 mg/kg
Lead	≤ 5.02 mg/kg
Mercury	≤ 0.48 mg/kg

10. STABILITY AND REACTIVITY

Reactivity

No specific reactivity hazard identified under normal conditions.

Chemical stability

Stable under normal temperatures and pressures. Powder is hygroscopic – keep dry to avoid caking/degradation.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Ignition Sources	Heat/Flame	Moisture (powder)	Strong Oxidizers
Avoid	Avoid	Avoid	Avoid contact

Incompatible materials

Strong oxidizing agents; food.

Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia (on thermal decomposition/combustion).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Irritation data: may be irritating to eyes, respiratory system and skin (mechanical/dust irritation).

Product-specific toxicological information (reference: anionic polyacrylamide class)

Test	Species/Route	Value
Oral LD50	Rat	> 1000 mg/kg
Oral LD50	Rat	12,990 mg/kg
Intraperitoneal LD50	Rat	3,670 mg/kg
Oral LD50	Rabbit	11,520 mg/kg

Values as reported for polyacrylamide-based reference polymer material; low acute toxicity overall. The polymerized product itself is of low concern; the principal toxicological concern for this class is residual unreacted acrylamide monomer (see section 3.2).

12. ECOLOGICAL INFORMATION

Toxicity

Not established for this specific formulation. Polymerized anionic polyacrylamide flocculants are generally of low aquatic toxicity in their polymerized, high-molecular-weight form; however, residual unreacted acrylamide monomer is toxic to aquatic organisms and neurotoxic to higher organisms. Avoid direct/uncontrolled discharge to water bodies.

Persistence and degradability

No data available for the polymer; expected to be poorly biodegradable due to high molecular weight.

Bioaccumulative potential

Not expected to bioaccumulate (high molecular weight, water-soluble polymer).

Mobility in soil

Soluble/dispersible in water.

Results of PBT and vPvB assessment

Not established for the polymerized product.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Spent or discarded material is not normally classified as hazardous waste in its polymerized form. Dispose of via a licensed waste disposal contractor, or dissolve and dispose of in accordance with local, state and national environmental regulations.

14. TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR/RID)

14.1 UN number	None – non-hazardous for transport
14.2 UN proper shipping name	Non-applicable
14.3 Transport hazard class(es)	None
14.4 Packing group	Non-applicable
14.5 Environmental hazard	No
14.6 Special precautions for user	None
14.7 Transport in bulk	Not relevant

Transport of dangerous goods by sea (IMDG/IMO)

14.1 UN number	None – non-hazardous for sea transport
14.2 UN proper shipping name	Non-applicable
14.3 Transport hazard class(es)	None
14.4 Packing group	Non-applicable
14.5 Marine pollutant	No
14.6 Special precautions for user	None
14.7 Transport in bulk	Not relevant

Transport of dangerous goods by air (IATA)

14.1 UN number	None – non-hazardous for air transport
14.2 UN proper shipping name	Non-applicable
14.3 Transport hazard class(es)	None
14.4 Packing group	Non-applicable
14.5 Environmental hazard	No
14.6 Special precautions for user	None
14.7 Transport in bulk	Not relevant

15. REGULATORY INFORMATION

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

Handle in accordance with general workplace chemical safety norms under the Factories Act, 1948 (as amended, 1987). Not classified as hazardous chemical under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, in its polymerized form.

Other legislation

The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)

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).

Texts of the legislative phrases mentioned in sections 2 and 3

Not applicable to the polymerized product itself – not classified as hazardous under GHS. Residual monomer hazard statements (informative only, refer to free acrylamide CAS 79-06-1): H301/H312/H332 (toxic), H317 (may cause allergic skin reaction), H340/H350 (may cause genetic defects/cancer), H361f (suspected of damaging fertility), H372 (nervous system damage through prolonged/repeated exposure).

The residual-monomer phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to a trace impurity potentially present per section 3.2.

Advice related to training

Minimal training is recommended to prevent industrial risks for staff using this product, to facilitate comprehension of this safety data sheet and the product label.

Principal bibliographical sources

General public reference data for anionic polyacrylamide (CAS 9003-05-8) class chemistry.

Abbreviations and acronyms

LD50: Lethal Dose 50 | PPE: Personal Protective Equipment

Disclaimer: 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.

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