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SAFETY DATA SHEET

ANIONIC POLYMER LIQUID DISPERSANT — HIGH VISCOSITY / NEUTRAL PH GRADE

CAS No.: Proprietary polymer blend (principal reference component: sodium polyacrylate, CAS 9003-04-7, supplied in neutralised/higher-viscosity form)

This Safety Data Sheet is issued by Suraj Chemicals as the distributor/supplier of record, based on manufacturer and published GHS / regulatory reference data for this substance. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

GHS Product identifier

ANIONIC POLYMER LIQUID DISPERSANT – High Viscosity / Neutral pH Grade
Neutralised sodium polyacrylate-type liquid dispersant

CAS: Proprietary polymer blend (principal reference component: sodium polyacrylate, CAS 9003-04-7, supplied in neutralised/higher-viscosity form)

Other means of identification

Not relevant

Recommended use of the chemical and restrictions on use

Relevant uses: High-viscosity, neutral-pH anionic dispersant/scale-inhibiting polymer for cooling water treatment, boiler water treatment, RO/membrane pre-treatment, and dispersion of inorganic solids in industrial process water – suited to applications requiring near-neutral pH dosing (e.g. mild steel systems, mixed-metallurgy circuits). 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 at neutral pH, 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 if irritation occurs; wear suitable protective gloves/eye protection when handling.

Other hazards which do not result in classification

Spilled/concentrated product is viscous and forms a slippery film on floors. Prolonged/repeated skin contact may cause mild irritation (non-classifying effect; see section 11). This substance/mixture does not meet the PBT/vPvB criteria based on available data.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Non-applicable – this product is an aqueous polymer formulation (see 3.2).

Mixtures

Identification	Chemical Name / Classification	Concentration
CAS: 9003-04-7 (reference)	Sodium polyacrylate (neutralised anionic polyacrylate polymer) – Not classified	Available on request (proprietary formulation)
7732-18-5	Water – Not classified	Balance

Exact polymer composition, molecular weight, neutralising agent and formulation additives are proprietary to the manufacturer. 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
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, rinse mouth with water. Do not induce vomiting. Get medical attention.

Most important symptoms/effects, acute and delayed

May cause mild irritation on prolonged/repeated contact. No significant acute effects expected at neutral pH.

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 – product is an aqueous solution and is not itself flammable.
Unsuitable: None known.

Specific hazards arising from the chemical	Non-flammable aqueous liquid. Thermal decomposition may release carbon oxides and sodium oxides.
Special protective actions for fire-fighters	Wear self-contained breathing apparatus and protective clothing in case of fire in the surrounding area. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid unnecessary contact with skin and eyes. Use personal protective equipment as described in section 8. Spilled material is viscous and slippery – caution against falls.
Environmental precautions	Prevent entry into drains, watercourses or soil where practicable. Contain spillage.
Methods and materials for containment and cleaning up	Dike and contain spill. Absorb with inert material (sand, earth, vermiculite) or squeegee/pump into a suitable container for reuse or disposal. Flush residual traces with water; treat according to local regulations.
Reference to other sections	See sections 8 and 13.

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid unnecessary contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after handling. Keep container tightly closed when not in use. High viscosity – use appropriate transfer pumps/heating (if required by climate) to ease handling.
Conditions for safe storage, including any incompatibilities	Store in tightly closed original containers in a cool, dry, well-ventilated area, protected from freezing and direct sunlight. Keep away from strong oxidizing agents. Typical shelf life: 12 months from date of manufacture in unopened packaging. Very low temperatures may increase viscosity further; warm gently before use if required.
Specific end use(s)	No special requirement beyond the uses specified in section 1.2. Dosing rates and application procedures are grade- and system-specific – consult Suraj Chemicals for guidance.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

No specific occupational exposure limit is established for this formulation under the Factories Act, 1948 (as amended).

Appropriate engineering controls

Use ventilation equipment where available. Safety shower and eye bath should be accessible.

B. Respiratory protection

Not normally required under normal handling conditions.

C. Specific protection for the hands

Chemical-resistant gloves (nitrile or PVC) recommended for prolonged handling.

D. Eye and face protection

Chemical safety goggles recommended.

E. Bodily protection

Appropriate protective clothing for bulk handling. 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

Item	Result
Physical state at 20°C	Liquid (aqueous solution), high viscosity
Appearance	Clear to pale straw viscous liquid
Odor	Mild / characteristic
pH (as supplied)	6.5 – 7.5 (neutral, typical)
Active solids content	Available on request (grade-dependent, typically 30 – 45%)
Relative density at 20°C	1.10 – 1.25 (typical)
Viscosity at 20°C	High viscosity (grade-dependent, available on request)
Solubility in water	Fully miscible
Boiling point	> 100°C (aqueous solution)
Flash point	Non-applicable (aqueous solution)
Freezing point	Approx. 0°C to -5°C (protect from freezing)

Precise batch values are grade-dependent and available on request via the Certificate of Analysis.

Other information

Explosive properties	Not relevant
Oxidising properties	None
Corrosive to metals	Not corrosive at neutral pH to common construction materials used in dosing systems

10. STABILITY AND REACTIVITY

Reactivity	No specific reactivity hazard identified under normal conditions of use and storage.
Chemical stability	Stable under normal temperatures and pressures. Freezing may cause irreversible phase separation/viscosity change – store as per section 7.2.
Possibility of hazardous reactions	Hazardous polymerization will not occur.

Conditions to avoid

Freezing	Strong Oxidizers	Extreme Heat
Avoid	Avoid contact	Avoid prolonged exposure

Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None under normal conditions; thermal decomposition may release carbon oxides and sodium oxides.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Based on available data for neutralised polyacrylate-type dispersants, the classification criteria for acute toxicity, CMR, sensitisation and STOT are not met.

Product-specific toxicological information (reference: sodium polyacrylate class)

Test	Species/Route	Value
Acute oral toxicity	Rat	LD50 > 5,000 mg/kg
Acute dermal toxicity	Rabbit	LD50 > 2,000 mg/kg
Skin irritation	Rabbit	Non-irritant to mildly irritant at neutral pH
Eye irritation	Rabbit	Non-irritant to mildly irritant at neutral pH

Values are class-typical reference data for neutralised anionic polyacrylate dispersants; batch-specific toxicology testing has not been performed on this proprietary formulation.

12. ECOLOGICAL INFORMATION

Toxicity	Not established for this specific formulation. Neutralised sodium polyacrylate-type dispersants are generally of low aquatic toxicity; avoid uncontrolled discharge due to dispersant action on suspended solids and nutrient loading.
Persistence and degradability	Polyacrylate polymers show limited biodegradability under standard test conditions; not readily biodegradable.
Bioaccumulative potential	Not expected to bioaccumulate (high molecular weight, water-soluble polymer).
Mobility in soil	Miscible with water; expected to be mobile in aqueous environments.
Results of PBT and vPvB assessment	Not established for this formulation.
Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal methods	Dispose of via a licensed waste disposal contractor in accordance with local, state and national environmental regulations. Do not discharge to drains/watercourses without treatment. Rinse empty containers with water before disposal or recycling; do not reuse for food/potable purposes.

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 a hazardous chemical under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

Other legislation

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

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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 – this product is not classified as hazardous under GHS.

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 neutralised sodium polyacrylate / anionic polyacrylate dispersant class chemistry.

Abbreviations and acronyms

LD50: Lethal Dose 50 | PPE: Personal Protective Equipment | PBT: Persistent, Bioaccumulative and Toxic | vPvB: very Persistent, very Bioaccumulative

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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