# SAFETY DATA SHEET

## ACID THICKENER

**CAS No.: Proprietary blend**

*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**

ACID THICKENER
Synthetic thickener/paste for acid (dyeing/printing) applications
**CAS:** Proprietary blend

**Other means of identification**

Not relevant

**Recommended use of the chemical and restrictions on use**

Relevant uses: Rheology modifier/thickening agent for textile printing pastes and dyeing formulations in the acid-dye range; industrial process auxiliary. For industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3.

**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

**Emergency phone number**

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

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**GHS:**
This product is a proprietary formulation without a single CAS number. Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), based on well-established, class-typical hazard data for this product category (see 2.3 and section 16). Batch-specific classification may vary by shade/grade – refer to the product label or contact Suraj Chemicals for the current classification.

| | |
|---|---|
| Eye Irrit. 2 | Eye irritation, Category 2, H319 (class-typical for concentrated polymeric thickener pastes/emulsions) |

**GHS label elements, including precautionary statements**

**GHS: Warning**

**Hazard statements**

Eye Irrit. 2: H319 – Causes serious eye irritation.

**Precautionary statements**

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/eye protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P501: Dispose of the contents/containers in accordance with regulations on waste.

**Other hazards which do not result in classification**

This is a proprietary blend; the individual polymer/surfactant components, their exact concentrations and any minor hazardous constituents below labelling thresholds are Available on request. No hazards other than those listed are known based on class-typical data.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances**

**Chemical description:** Synthetic polymeric thickening agent (typically polyacrylate and/or modified natural gum/polysaccharide based) formulated for use in the acid pH range for textile dye/print paste preparation

Non-applicable – this product is not a single substance (see 3.2).

**Mixtures**

In accordance with Annex 4.3.3 of the GHS, the product is a proprietary mixture:

| Identification | Chemical Name / Classification | Concentration |
|---|---|---|
| CAS: Proprietary blend | Acid Thickener — Eye Irrit. 2: H319 – Warning | Available on request (proprietary formulation) |

*This is a proprietary formulation. Exact composition, individual component CAS numbers and precise concentrations are confidential and are "Available on request" from Suraj Chemicals (subject to a signed confidentiality agreement) or from the original manufacturer. The hazard information in this SDS reflects the well-established, class-typical hazard profile for this type of product.*

## 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

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

**By inhalation**

Remove the person affected from the area of exposure to fresh air. Seek medical attention if respiratory discomfort persists.

**By skin contact**

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

**By eye contact**

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

**By ingestion/aspiration**

Rinse the mouth with water. If a large quantity is swallowed or the person feels unwell, seek medical attention.

**Most important symptoms/effects, acute and delayed**

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant – treat symptomatically

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

**Suitable:** Water spray/fog, foam, dry chemical powder, carbon dioxide – suit surrounding fire
**Unsuitable:** None known

**Specific hazards arising from the chemical**

Not classified as flammable or explosive. On combustion may emit oxides of carbon, nitrogen and sulfur, and, depending on the specific formulation, other decomposition products typical of the substance class (see section 10).

**Special protective actions for fire-fighters**

Evacuate all non-essential personnel. Wear self-contained breathing apparatus and full protective clothing in case of significant fire involving this product.

**Additional provisions**

Cool fire-exposed containers with water spray. Contain fire-fighting water to prevent environmental release.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Isolate leaks provided there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (see section 8). Evacuate the area and keep out those who do not have protection.

**For emergency responders**

Wear protective equipment. Keep unprotected persons away. See section 8.

**Environmental precautions**

Avoid dust/spray generation. Prevent large quantities from entering drains or watercourses (may impart colour/BOD load). Notify the relevant authority in case of significant environmental release.

**Methods and materials for containment and cleaning up**

Sweep up/absorb (avoid generating dust for powders; use inert absorbent for liquids/pastes) and place in a labelled container for reuse or disposal. Wash residual area with water.

**Reference to other sections**

See sections 8 and 13.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**A. General precautions for safe use**

Avoid generating and inhaling dust/mist. Use local exhaust ventilation where dust/mist may be generated. Avoid contact with eyes and prolonged skin contact.

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

Not applicable – product is not flammable or explosive under normal conditions.

**C. Technical recommendations on general occupational hygiene**

Do not eat or drink during the process; wash hands afterwards with suitable cleaning products.

**D. Technical recommendations to prevent environmental risks**

Provide tight electrical equipment well protected against corrosion. Avoid atmospheric emissions. Warn people about the dangers of the product. Follow the protective measures given in the exposure controls/personal protection section. In industrial installations, apply the rules for the prevention of major accidents (consult an expert).

**Conditions for safe storage, including any incompatibilities**

**A. Specific storage requirements**

| | |
|---|---|
| Minimum Temp. | 5°C |
| Maximum Temp. | 35°C |
| Maximum time | 12–24 Months in original sealed packaging (grade-dependent; see product label/COA) |

**B. General conditions for storage**

Store in a cool, dry place, protected from freezing and direct sunlight, in tightly closed containers. Stir/homogenise before use if separation occurs on storage. For additional information see subsection 10.5.

**Specific end use(s)**

Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters**

No specific occupational exposure limit has been established for this proprietary formulation under the Factories Act, 1948. Apply the general limit for particulates/aerosols not otherwise classified/specified (PNOS/PNOC) as a good-practice reference value.

| Identification | Occupational Exposure Limit Type | Value |
|---|---|---|
| Acid Thickener<br>CAS: Proprietary blend | Particulates/Aerosols Not Otherwise Specified – TWA (8 hrs, inhalable) | 10 mg/m³ (reference value) |

**Appropriate engineering controls**

It is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding occupational exposure limits, in addition to individual protective equipment (PPE) as needed. Consult the manufacturer's information leaflet for storage, use, cleaning and maintenance of PPE.

**B. Respiratory protection**

Not normally required with adequate ventilation. Use a dust/mist mask (FFP1/FFP2) if airborne levels are high.

**C. Specific protection for the hands**

Protective gloves (e.g. nitrile) for general handling.

**D. Eye and face protection**

Safety glasses/chemical splash goggles.

**E. Bodily protection**

Standard industrial workwear; apron for bulk/liquid handling.

**F. Additional emergency measures**

Emergency shower (ANSI Z358-1, ISO 3864-1:2011, ISO 3864-4:2011) and eyewash stations (DIN 12 899, ISO 3864-1:2011, ISO 3864-4:2011) should be available.

**Environmental exposure controls**

Avoid environmental spillage of both the product and its container. See subsection 7.1.D.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance** | |
| Physical state at 20°C | Liquid / viscous paste (grade-dependent; may also be supplied as powder) |
| Appearance | Viscous, translucent to opaque paste/liquid |
| Color | Off-white to pale yellow (grade-dependent) |
| Odor | Slight/characteristic, typically mild |
| Odour threshold | Not relevant * |
| **Volatility** | |
| Boiling point at atmospheric pressure | ~100°C (aqueous-based system, approx.) |
| Vapour pressure at 20°C | Approx. that of water (aqueous continuous phase) |
| Evaporation rate at 20°C | Slow (viscous aqueous system) |
| **Product Description** | |
| Density / Relative density at 20°C | ~1.0–1.05 g/cm³ (class-typical for aqueous polymer emulsion/paste) |
| Dynamic / Kinematic viscosity at 20°C | High (thickening agent by design) – Available on request (grade-specific) |
| Concentration | Available on request (proprietary formulation) |
| pH (as supplied / 1% dilution) | Class-typical 2.5–4 (acid-milieu compatible thickener) – confirm on COA |
| Vapour density at 20°C | Not relevant * |
| Partition coefficient n-octanol/water 20°C | Not relevant (aqueous polymer system) |
| Solubility in water at 20°C | Dispersible/miscible with water (designed to thicken aqueous dye liquors) |
| Decomposition temperature | Not established |
| Melting point/freezing point | Not relevant (aqueous liquid/paste); may thicken/gel on freezing – avoid freezing |
| **Flammability** | |
| Flash Point | Non-applicable (aqueous-based product) |
| Flammability (solid, gas) | Non-applicable (liquid/paste); not flammable |
| Autoignition temperature | Not relevant * |
| Lower / Upper flammability limit | Not relevant * |
| **Particle Characteristics** | |
| Median equivalent diameter | Non-applicable (liquid/paste) |

** Not relevant/not established for this proprietary grade – contact Suraj Chemicals for the current product data sheet/certificate of analysis. Values shown are class-typical reference ranges, not batch-specific guaranteed figures.*

**Other information**

| | |
|---|---|
| Explosive properties | Not relevant (aqueous system) |
| Oxidising properties | Not an oxidizer |
| Corrosive to metals | Not classified (mildly acidic – avoid prolonged contact with reactive metals) |
| Heat of combustion | Not relevant * |
| Surface tension at 20°C | Not relevant * |
| Refraction index | Not relevant * |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No significant reactivity hazard under normal conditions of storage, handling and use.

**Chemical stability**

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

**Possibility of hazardous reactions**

Under the specified conditions, hazardous reactions are not expected.

**Conditions to avoid**

| Shock/Friction | Contact with Air | Increase in Temperature | Sunlight | Humidity |
|---|---|---|---|---|
| Not applicable | Not applicable | Avoid excessive heat/prolonged storage above max. temp. | Avoid prolonged direct exposure (may affect colour/potency) | Keep dry/sealed to avoid degradation or caking |

**Incompatible materials**

| Strong Oxidizing Agents | Strong Acids/Alkalis | Other |
|---|---|---|
| Avoid contact | Avoid contact – may affect product stability/colour | Avoid mixing with incompatible dyeing/finishing auxiliaries without trial |

**Hazardous decomposition products**

Oxides of carbon, nitrogen and sulfur (formulation-dependent) on thermal decomposition/combustion.

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

Substance-specific (batch) toxicological test data are not available for this proprietary formulation. The following reflects well-established, class-typical toxicological information for this type of product; treat with normal industrial hygiene precautions:

**A. Ingestion (acute effect)**

Low acute oral toxicity is typical for polymeric thickening agents (e.g. polyacrylate/polysaccharide-based) used in this application class.

**B. Inhalation (acute effect)**

Not normally a significant route of exposure for a paste/liquid product; mist from spray application may cause mild irritation.

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

Causes serious eye irritation (H319) due to mildly acidic pH; not classified as a skin irritant based on class-typical data.

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

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

**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**

Classification criteria are not met based on available data (viscous aqueous system, low aspiration risk).

**Product-specific toxicological information**

| Identification | Acute Toxicity | Genus |
|---|---|---|
| Acid Thickener<br>CAS: Proprietary blend | LD50 oral: Available on request (class-typical for this product category: generally >2000 mg/kg) | Rat (class-typical) |

## 12. ECOLOGICAL INFORMATION

**Not classified as hazardous to the aquatic environment based on class-typical data for polymeric thickening agents.**

**Toxicity**

Quantitative aquatic toxicity (LC50/EC50) data specific to this formulation are not available and are “Available on request”. As a class, polymeric thickeners (polyacrylate/polysaccharide-based) used in textile printing are generally of low aquatic toxicity.

**Persistence and degradability**

Not established for this specific formulation; high-molecular-weight polymeric thickeners are generally not readily biodegradable but present low bioavailability/toxicity.

**Bioaccumulative potential**

Low bioaccumulation potential expected (high molecular weight, low lipophilicity typical of this product class).

**Mobility in soil**

| Koc | Henry | Dry Soil | Moist Soil |
|---|---|---|---|
| Available on request | Negligible (non-volatile) | Not applicable (liquid/paste) | Low mobility (viscous, high molecular weight) |

**Results of PBT and vPvB assessment**

Not formally assessed for this specific formulation; class-typical data do not indicate PBT/vPvB properties.

**Other adverse effects**

May increase chemical oxygen demand (COD) of wastewater if released in bulk; manage through appropriate effluent treatment.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Dispose of as industrial (non-hazardous, unless locally reclassified) liquid/paste waste via a licensed waste contractor, with due regard to COD load if discharged to effluent treatment, in accordance with local regulations. For packaging: empty thoroughly before disposal/recycling.

Refer to national and local regulations on waste management, including the Hazardous and Other Wastes (Management and Transboundary Movement) Rules.

Need a price or stock? Request a quote at www.surajchemicals.com/request-quote | WhatsApp +91 70927 22822

## 14. TRANSPORT INFORMATION

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

| | |
|---|---|
| 14.1 UN number | Not assigned – non-hazardous for transport |
| 14.2 UN proper shipping name | Non-applicable |
| 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 | Non-applicable – product is not a dangerous good under ADR/RID/IMDG/IATA criteria |
| 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 – non-hazardous for transport |
| 14.2 UN proper shipping name | Non-applicable |
| 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 | Non-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 – non-hazardous for transport |
| 14.2 UN proper shipping name | Non-applicable |
| 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 | Non-applicable |
| 14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code) | Not relevant |

## 15. REGULATORY INFORMATION

**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**

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989
The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)
The Chemical Accidents (Emergency Planning, Preparedness, and Response) Rules, 1996
Public Liability Insurance Act, 1991

## 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**

Eye Irrit. 2: H319 – Causes serious eye irritation.

*The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.*

**Advice related to training**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources**

PubChem (National Library of Medicine); European Chemicals Agency (ECHA) classification and labelling inventory; United Nations Economic Commission for Europe (UNECE) Model Regulations; ACGIH Threshold Limit Values. Specific proprietary composition and quantitative 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 | COD: Chemical Oxygen Demand | BOD5: 5-day biochemical oxygen demand | BCF: Bioconcentration factor | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50 | Log-POW: Octanol-water partition coefficient | Koc: Partition coefficient of organic carbon | IARC: International Agency for Research on Cancer

**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.

*(This document is computer generated and therefore does not require any signature.)*