

GINONEOS ALS

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

GINONEOS ALS
Ammonium Lauryl Sulfate (Ammonium Dodecyl Sulfate, ALS)
CAS: 2235-54-3

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Mild anionic surfactant used as the primary detergent-active base or co-surfactant in personal-care cleansing formulations (shampoos, body washes, baby-care and facial cleansers), liquid dishwash/handwash, liquid detergents and industrial & institutional cleaning formulations. For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3.

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 the well-established, publicly documented hazard profile of Ammonium Lauryl Sulfate (CAS 2235-54-3):

Skin Irrit. 2	Skin corrosion/irritation, Category 2, H315
Eye Dam. 1	Serious eye damage/eye irritation, Category 1, H318

2.2 GHS label elements, including precautionary statements:

GHS: Danger

Hazard statements:

Skin Irrit. 2: H315 – Causes skin irritation.
Eye Dam. 1: H318 – Causes serious eye damage.

Precautionary statements:

P264: Wash skin/hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P332+P313: If skin irritation occurs, get medical advice/attention.
P362: Take off contaminated clothing, wash before reuse.
P501: Dispose of contents/container in accordance with local regulations on industrial waste.

2.3 Other hazards which do not result in classification:

Not relevant

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Ammonium Lauryl Sulfate (aqueous solution/paste) – mild anionic surfactant
In accordance with Annex 4.3.3 of the GHS, the product typically contains:

Identification	Chemical Name / Classification	Concentration
CAS: 2235-54-3	Ammonium Lauryl Sulfate — Skin Irrit. 2: H315; Eye Dam. 1: H318 – Danger	Available on request
CAS: 7732-18-5	Water – Not classified	Balance

Available on request – grade-specific active matter (% AM) not disclosed for this trade grade. To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

See composition table above – this product is an anionic-surfactant-based aqueous solution/paste; the exact batch/grade formulation and active-matter percentage are proprietary to the manufacturer and are available on request.

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Take off immediately all contaminated clothing. Self-protection of the first aider is advised.

By inhalation:

Provide fresh air. Seek medical attention in all cases of doubt or when symptoms persist.

By skin contact:

Wash immediately with plenty of water and soap. Remove contaminated clothing.

By eye contact:

Flush immediately with plenty of water for at least 15 minutes, holding eyelids apart. Remove contact lenses, if present and easy to do. Seek immediate medical attention.

By ingestion/aspiration:

Rinse mouth with water (only if the person is conscious). Do not induce vomiting. Call a physician immediately.

- 4.2 Most important symptoms/effects, acute and delayed:**
Inhalation: mist/spray may cause irritation of the nose, throat and respiratory tract. Skin contact: irritation, redness; effect depends on concentration and length of contact. Eye contact: can result in serious eye damage – redness, watering, pain, possible corneal injury. Ingestion: irritation to mouth, throat and stomach.
- 4.3 Indication of immediate medical attention and special treatment needed, if necessary:**
Symptomatic treatment as required.

SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media:**
Suitable: Water spray, foam, dry chemical powder, carbon dioxide (CO₂). Co-ordinate fire-fighting measures to the surroundings.
Unsuitable: None known
- 5.2 Specific hazards arising from the chemical:**
Not classified as flammable (aqueous solution). No hazardous combustion products expected under normal fire conditions; may generate oxides of carbon and sulfur on combustion of the dried residue.
- 5.3 Special protective actions for fire-fighters:**
Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus and full protective clothing.
- Additional provisions:**
Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:**
For non-emergency personnel:
Wear suitable protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid slipping on spilled product (product is foaming/slippery when wet).
- For emergency responders:**
Wear protective equipment described in Section 8. Keep unprotected persons away.
- 6.2 Environmental precautions:**
Keep away from drains, surface water and ground water. Retain contaminated washing water for disposal. Avoid excessive foaming during clean-up.
- 6.3 Methods and materials for containment and cleaning up:**
Contain the spill with sand/inert absorbent. Collect in a clean, dry, labelled container for disposal or reuse. Wash the residual area with water, avoiding release to drains.
- 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:
Provide sufficient ventilation. Avoid contact with skin and eyes. Avoid generating mist/spray during transfer.
- B. Technical recommendations for the prevention of fires and explosions:**
No special measures required; product is an aqueous surfactant solution/paste and is not flammable.
- C. Technical recommendations on general occupational hygiene:**
Do not eat, drink or smoke in work areas. Wash hands before breaks and after work.
- D. Technical recommendations to prevent environmental risks:**
Prevent release to drains, surface water and groundwater. See subsection 6.2.
- 7.2 Conditions for safe storage, including any incompatibilities:**
A. Specific storage requirements:
- | | |
|---------------------------------|--|
| Recommended storage temperature | 10–35°C, avoid freezing and prolonged high temperature |
| Packaging | Keep container tightly closed / properly sealed |
- B. General conditions for storage:**
Store in closed original containers in a cool, dry, well-ventilated area, protected from direct sunlight and freezing. Keep away from strong oxidising agents, strong acids and strong alkaline materials. For additional information see subsection 10.5.
- 7.3 Specific end use(s):**
No additional information available beyond uses listed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters:**
Ammonium Lauryl Sulfate (CAS 2235-54-3): no occupational exposure limit (OEL) has been established for this substance under the Factories Act, 1948, or comparable standard lists; control exposure to the lowest practicable level as good industrial hygiene practice.
- 8.2 Appropriate engineering controls:**
Provide sufficient general/local exhaust ventilation as a collective protection measure, in addition to individual PPE as needed.
- B. Respiratory protection:**
Not normally required under normal conditions of use; use a suitable mist/vapour respirator if mist is generated during processing (e.g. spraying, mixing).
- C. Specific protection for the hands:**
Wear suitable chemical-resistant gloves – nitrile or natural rubber (NR)/latex, minimum thickness 0.35–0.65 mm.
- D. Eye and face protection:**
Use safety goggles with side protection; wear face protection where splashing may occur.
- E. Bodily protection:**
Protective clothing (apron/coverall) recommended for prolonged or repeated contact; preventive skin protection (barrier creams/ointments) is recommended.
- F. Additional emergency measures:**
Emergency shower and eyewash stations should be available near the work area.
- Environmental exposure controls:**
Avoid environmental spillage of both the product and its packaging. See subsection 6.2.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties:**
- | | |
|------------------------|-----------------------------------|
| Appearance | |
| Physical state at 20°C | Liquid / paste (aqueous solution) |
| Appearance | Viscous liquid to soft paste |
| | |

Color	White to pale yellow
Odor	Characteristic (mild surfactant odor)
Odour threshold	Not available
Volatility	
Boiling point at atmospheric pressure	Approx. 100°C (aqueous solution, water-based)
Vapour pressure	Not available (aqueous solution – approximates that of water)
Evaporation rate	Not available
Product Description	
Density / Relative density	Approx. 1.02 – 1.05 g/cm³ (typical commercial aqueous grade) – grade-specific value available on request
Active matter (% AM)	Available on request (grade-specific)
pH (as supplied / dilute aqueous solution)	6.0 – 8.5 (typical for ammonium alkyl sulfate solutions)
Vapour density	Not applicable
Partition coefficient n-octanol/water (log KOW)	Not available
Solubility in water	Miscible / soluble in all proportions
Melting point/freezing point	Not relevant (aqueous liquid/paste); may thicken/cloud on prolonged exposure below 5°C
Flammability	
Flash Point	Not applicable (aqueous solution)
Flammability (solid, gas)	Not applicable
Autoignition temperature	Not available
Lower / Upper flammability limit	Not applicable

Values reflect the well-established public physicochemical profile for Ammonium Lauryl Sulfate (CAS 2235-54-3) as a typical commercial aqueous grade; exact batch/grade-specific figures for this Suraj Chemicals product are available on request.

9.2 Other information:

Explosive properties	Not available
Oxidising properties	Not available
Dynamic viscosity	Available on request (grade-specific)

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:**
Reacts with strong oxidising and strong reducing agents; otherwise not reactive under normal conditions of use. May undergo hydrolysis under strongly acidic or strongly alkaline conditions or at elevated temperature.
- 10.2 Chemical stability:**
Stable under normal conditions of storage and handling.
- 10.3 Possibility of hazardous reactions:**
Hazardous polymerisation will not occur.
- 10.4 Conditions to avoid:**
- | Shock/Friction | Contact with Air | Increase in Temperature | Sunlight | Humidity |
|----------------|------------------|------------------------------------|---------------------------------|----------------------------------|
| Not applicable | Not applicable | Avoid prolonged storage above 35°C | Avoid prolonged direct sunlight | Not applicable (aqueous product) |
- 10.5 Incompatible materials:**
Reactive with strong oxidising agents, strong acids and strong alkaline materials (e.g. concentrated nitric acid, sulphuric acid).
- 10.6 Hazardous decomposition products:**
Will not occur under normal use and temperature conditions. Thermal decomposition/combustion of the dried residue may release oxides of carbon and sulfur, and ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects:**
In case of exposure that is repetitive, prolonged, or at concentrations higher than recommended, adverse health effects may result depending on the means of exposure:
- A. Ingestion (acute effect):**
LD50 (rat, oral) > 2000 mg/kg. Causes irritation and possible discomfort to mouth, throat and stomach; may cause gastrointestinal disturbance.
- B. Inhalation (acute effect):**
LC50 rat (4h) > 5 mg/L (mist). Mist may cause irritation of the nose, throat and respiratory tract.
- C. Contact with skin and eyes (acute effect):**
Contact with skin causes irritation; contact with eyes causes serious eye damage.
- D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):**
Not classified as a germ cell mutagen, carcinogen, or reproductive toxicant based on available data. IARC: Not listed.
- E. Sensitizing effects:**
Not classified as a respiratory or skin sensitizer based on available data.
- F. Specific target organ toxicity (STOT) – single/repeated exposure:**
Classification criteria for single or repeated exposure STOT are not met based on available data.
- H. Aspiration hazard:**
Not classified based on available data.
- Product-specific toxicological information (Acute Toxicity Estimate):**

Exposure route	Effect rate / concentration	ATE value
Acute Oral	LD50, rat	> 2000 mg/kg
Acute Dermal	LD50, rabbit	> 2000 mg/kg
Acute Inhalation	LC50, rat (4h)	> 5 mg/L (mist)

SECTION 12: ECOLOGICAL INFORMATION

- Harmful to aquatic life.
- 12.1 Toxicity:**
- | | | |
|--|--|--|
| | | |
|--|--|--|

Acute Toxicity	Species	Genus
LC50: 1 – 10 mg/L (96h)	Freshwater fish	Fish
EC50: 1 – 10 mg/L (48h)	Daphnia magna	Crustacean

12.2 Persistence and degradability:
Readily biodegradable (anionic alkyl sulfate surfactant meeting OECD ready-biodegradability criteria).

12.3 Bioaccumulative potential:
Log Pow indicates low bioaccumulation potential; not expected to bioaccumulate significantly.

12.4 Mobility in soil:
Not available

12.5 Results of PBT and vPvB assessment:
Not available

12.6 Other adverse effects:
Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:
Do not empty into drains; avoid release to the environment. Not classified as a hazardous waste under normal conditions; dispose of according to applicable central/state pollution control regulations. All waste must be handled in accordance with local, state and central regulations, which may vary by location.
Waste shall be separated into categories that can be handled by local/national waste management facilities, per relevant provisions.

SECTION 14: TRANSPORT INFORMATION

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

14.1 UN number	Not applicable
14.2 UN proper shipping name	Not a regulated material
14.3 Transport hazard class(es)	Non-hazardous for transport
14.4 Packing group	Not applicable
14.5 Environmental hazard	Not classified for transport purposes
14.6 Special precautions for user	None
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not applicable

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

14.1 UN number	Not applicable
14.2 UN proper shipping name	Not a regulated material
14.3 Transport hazard class(es)	Non-hazardous for transport
14.4 Packing group	Not applicable
14.5 Marine pollutant	No
14.6 Special precautions for user	None
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not applicable

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

14.1 UN number	Not applicable
14.2 UN proper shipping name	Not a regulated material
14.3 Transport hazard class(es)	Non-hazardous for transport
14.4 Packing group	Not applicable
14.5 Environmental hazard	Not classified for transport purposes
14.6 Special precautions for user	Not necessary
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:
According to available data, this product is not a specially regulated substance; observe prescribed central, state and local measures while handling industrial chemicals.

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)

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), based on the well-established, publicly documented hazard classification for Ammonium Lauryl Sulfate (CAS 2235-54-3).

Texts of the legislative phrases mentioned in sections 2 and 3:
H315: Causes skin irritation.
H318: Causes serious eye damage.
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:
Publicly available GHS/CLP classification and toxicological data for Ammonium Lauryl Sulfate (CAS 2235-54-3); standard industry references for alkyl-sulfate-type anionic surfactants. Grade-specific proprietary figures not covered by public data are marked "Available on request" above.

Abbreviations and acronyms:
GHS: Globally Harmonized System of Classification and Labelling of Chemicals | ATE: Acute Toxicity Estimate | CMR: Carcinogenic, Mutagenic or toxic for Reproduction | Log KOW: N-octanol/water partition coefficient | PBT: Persistent, Bioaccumulative and Toxic | vPvB: Very Persistent and very Bioaccumulative | AM: Active Matter | OEL: Occupational Exposure Limit

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