SAFETY DATA SHEET

ALFODET P46

CAS No.: 68439-57-6

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

ALFODET P46
Sodium C14-16 Olefin Sulfonate Paste, ~46% Active Grade (P46)
CAS: 68439-57-6

Other means of identification

Not relevant

Recommended use of the chemical and restrictions on use

Relevant uses: Anionic surfactant used as a detergent-active base in dishwash bar/cake, detergent powder, liquid dishwash/handwash and industrial & institutional cleaning formulations; also used in emulsion polymerisation and cosmetic/personal-care cleansing formulations. For industrial user only.

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

Supplier's details

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2. HAZARDS IDENTIFICATION

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 Sodium C14-16 Olefin Sulfonate (CAS 68439-57-6):

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

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.

Other hazards which do not result in classification

Not relevant

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Chemical description: Sodium C14-16 Olefin Sulfonate (Alpha Olefin Sulphonate), paste – White to off-white paste

In accordance with Annex 4.3.3 of the GHS, the product typically contains:

Identification	Chemical Name / Classification	Concentration
CAS: 68439-57-6	Sodium C14-16 Olefin Sulfonate — Skin Irrit. 2: H315; Eye Dam. 1: H318 – Danger	Min 46 – 50
CAS: 7732-18-5	Water – Not classified	Balance
CAS: 7757-82-6	Sodium sulphate – Not classified	Max 2.0%
CAS: 1120-36-1	Unsulphonated olefin/di-olefin residue (NDOM) – Not classified	Max 4.0%
CAS: 7647-14-5	Sodium chloride – Not classified	Max 2.0%

~46% w/w (nominal; exact grade specification available on request). To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

Mixtures

See composition table above – this product is an anionic-surfactant-based mixture; the exact batch/grade formulation is proprietary to the manufacturer and is available on request.

4. FIRST AID MEASURES

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.

By eye contact

Flush immediately with plenty of water for at least 15 minutes, holding eyelids apart. 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.

Most important symptoms/effects, acute and delayed

Inhalation: dust or mist can cause irritation of the nose, throat and respiratory tract. Skin contact: irritation, redness; damage depends on length of contact. Eye contact: can result in serious eye damage – redness, watering, pain, possible corneal injury. Ingestion: irritation to mouth, throat and stomach.

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

Symptomatic treatment as required.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Suitable: Water spray, foam, dry chemical powder, carbon dioxide (CO_2). Co-ordinate fire-fighting measures to the surroundings.
Unsuitable: None known

Specific hazards arising from the chemical

Not classified as flammable. No hazardous combustion products expected under normal fire conditions; may generate oxides of carbon and sulfur on combustion.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear suitable protective equipment to prevent contamination of skin, eyes and personal clothing. Spilled paste is slippery underfoot – take care of slip hazard.

For emergency responders

Wear protective equipment described in Section 8. Keep unprotected persons away.

Environmental precautions

Keep away from drains, surface water and ground water. Retain contaminated washing water for disposal.

Methods and materials for containment and cleaning up

Cover drains. Absorb with inert liquid-binding material (sand, diatomaceous earth or universal binding agent). Collect with a clean shovel/scraper, place in clean dry vessels, cover and remove from the spill area. Wash the 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

Provide sufficient ventilation. Handle open containers/drums with care; avoid splashing.

B. Technical recommendations for the prevention of fires and explosions

Avoid static electricity discharges. Keep container tightly closed.

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.

Conditions for safe storage, including any incompatibilities

A. Specific storage requirements

Recommended storage temperature	20 – 35°C
Packaging	Keep tightly closed / properly sealed

B. General conditions for storage

Store in a cool area, 20–35°C, away from direct sunlight. Avoid freezing/prolonged exposure below 5°C as the paste may thicken and become difficult to pump; gentle warming and mixing restores normal consistency. Keep containers/drums tightly closed. Store away from strong oxidising agents, strong acids and strong alkaline materials. For additional information see subsection 10.5.

Specific end use(s)

No additional information available beyond uses listed in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Sodium C14-16 Olefin Sulfonate (CAS 68439-57-6): no occupational exposure limit (OEL) has been established for this substance under the Factories Act, 1948, or comparable standard lists; treat as a nuisance dust/mist and control exposure to the lowest practicable level.

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 in well-ventilated areas; use a suitable respirator if mist or spray is generated.

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 or dust generation may occur.

E. Bodily protection

Protective clothing (apron/coverall); 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	
Physical state at 20°C	Paste
Appearance	Viscous paste
Color	White to off-white paste
Odor	Characteristic (mild surfactant odor)
Odour threshold	Not available
Volatility	
Boiling point at atmospheric pressure	> 100°C at 760 mm Hg (aqueous system)
Vapour pressure	Not available
Evaporation rate	Not applicable
Product Description	
Density / Relative density	Not available
Bulk density	Not applicable (paste)
pH (1% aqueous solution)	7.5 – 9.5
Vapour density	Not applicable
Partition coefficient n-octanol/water (log KOW)	Not available
Solubility in water	Soluble
Melting point/freezing point	Not available (paste softens/thins on heating; not a defined melting solid)
Flammability	
Flash Point	> 94°C (> 201°F), closed cup (aqueous paste)
Flammability (solid, gas)	Non-flammable in aqueous form
Autoignition temperature	Not available
Lower / Upper flammability limit	Not available

Values reflect the well-established public physicochemical profile for Sodium C14-16 Olefin Sulfonate (CAS 68439-57-6); grade-specific batch figures for this Suraj Chemicals product are available on request.

Other information

Explosive properties	Not available
Oxidising properties	Not available
Dynamic viscosity	Available on request (varies with grade/batch)

10. STABILITY AND REACTIVITY

Reactivity Reacts with strong oxidising and strong reducing agents; otherwise not reactive under normal conditions of use.

Chemical stability Stable under normal conditions of storage and handling.

Possibility of hazardous reactions Hazardous polymerisation will not occur.

Conditions to avoid

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Keep away from heat, sparks and flame	Not applicable	Avoid moisture

Incompatible materials Reactive with strong oxidising agents, strong acids and strong alkaline materials (e.g. concentrated nitric acid, sulphuric acid).

Hazardous decomposition products Will not occur under normal use and temperature conditions. Thermal decomposition/combustion may release oxides of carbon and sulfur.

11. TOXICOLOGICAL INFORMATION

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, calculated) > 2000 mg/kg. Causes irritation and possible discomfort to mouth, throat and stomach.

B. Inhalation (acute effect)
LC50 rat (4h) > 5 mg/L (dust/mist). Dust/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 (dust/mist)

12. ECOLOGICAL INFORMATION

Harmful to aquatic life.

Toxicity

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

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

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

Mobility in soil Not available

Results of PBT and vPvB assessment Not available

Other adverse effects Not available

13. DISPOSAL CONSIDERATIONS

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.

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

15. REGULATORY INFORMATION

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)

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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), based on the well-established, publicly documented hazard classification for Sodium C14-16 Olefin Sulfonate (CAS 68439-57-6).

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 Sodium C14-16 Olefin Sulfonate (CAS 68439-57-6); standard industry references for alpha-olefin-sulphonate-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 | NDOM: Non-detergent organic matter | OEL: Occupational Exposure Limit

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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