
1. Chemical Product and Company Identification

INCI name: Acrylates Copolymer

CAS No.: 25133-97-5

Chemical formula: C₁₄H₂₂O₆

Trade name: SF-1

Product application: Commonly used in detergents, personal care products, and cosmetics

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2. Hazards Identification

Overall Hazard Classification: Not hazardous.

Hazard Information: Not hazardous.

Possible Health Effects:

Acute

Eyes: Direct contact may cause slight irritation.

Skin: Prolonged or repeated skin contact can cause slight skin irritation.

Inhalation: Inhalation of high vapor or mist concentrations can cause headache, nausea, irritation of nose, throat, and lungs.

Ingestion: Low ingestion hazard in normal use.

Chronic: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Skin: Repeated or prolonged exposure may cause irritation.

Inhalation: No know applicable information.

Ingestion: Repeated ingestion or swallowing large amounts may injure internally.

Signs and Symptoms of Overexposure:

No significant adverse effects from a single exposure expected from normal use.

3. Composition/Information on Ingredients

Component	CAS NO.	Percentage, wt, %
Acrylates Copolymer	25035-69-2	34.0~36.0
Water	7732-18-5	64.0~66.0

4. First aid Measures

Eyes: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.

Skin: Wash skin with soap and water. If symptoms develop, obtain medical attention

Ingestion: If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

Comments: Treat according to person's condition and specifics of exposure.

Note to physicians: Treat symptomatically.

5. Fire-fighting Measures

Autoignition: Not available.

Flashpoint: >175°C

Extinguishing Media: CO₂; Dry Chemical; Foam; Water Fog.

Special FireFighting Procedures: Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

Fire & Explosion Hazards: Irritating or toxic substances will be emitted upon burning, combustion or decomposition.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, unknown hydrocarbons.

Lower Explosion Limit: Not applicable.

Upper Explosion Limit: Not applicable.

Flammability Hazard Class: 1=Slight.

6. Accidental Release Measures

Personal Precaution: Avoid eye contact. Do not take internally.

Environmental Precautions: Do not take internally.

Spill and Leak Procedures: Wash by water immediately.

7. Handling and storage

Handling: Monomer vapors can be evolved when material is heated during processing operations.

Use local exhaust ventilation with a minimum capture velocity of 0.5m/sec at the point of vapor evolution. Facilities storing or utilizing this material should be equipped with an eyewash facility.

Storage Conditions:

(1) The temperature during storage and transportation must be controlled at 5-35°C.

(2) Ice must be strictly avoided, which will lead to demulsification of the product and cannot be used anymore.

8. Exposure controls/personal protection

Engineering Controls

Local Ventilation: Recommended.

General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Respiratory protection: None required under normal handling conditions. Where vapors or mists may occur, wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with organic vapor cartridges and dust and mist filters.

Eye protection: Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles.

Hand protection: Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Clothing Requirements: Uniforms, coveralls, or a lab coat should be worn.

Change/Removal Of Clothing: Remove contaminated clothing and launder before reuse.

Wash Requirements: Wash exposed areas with soap and water.

9. Physical and chemical properties

Physical Form: Liquid

Color: Milky white

Solid content (%): 34.0~36.0

pH value (25°C): 2.0~4.0

Viscosity (After neutralization in 1% solids aqueous solution, mPa•s, 25°C): 4000~8000

Residual ethyl acrylate(mg/kg): ≤1.0

10. Stability and reactivity

Stability: Stable.

Reactivity Hazard Class: This material is considered stable. However, avoid temperatures above 177°C, the onset of polymer decomposition. Thermal decomposition is depended on time and temperature.

Hazardous Decomposition Products: Thermal decomposition may yield acrylic monomers.

Hazardous Polymerization: Product will not undergo polymerization.

11. Toxicological information

Possible Health Effects: Refer to Section 3.4

Mutagenicity: The Reverse Mutation Assay “Ames Test” using Salmonella typhimurium strains TA1535, TA1537, TA98, and TA100 and E. Coli strain WP2uvrA was conducted on the test material. A preliminary test was carried out to select appropriate dose levels for use in the main study. The test material was non-toxic to the strains of bacteria used up to the maximum dosage of 5000 µg/plate and therefore was tested up to this maximum dose. No significant increases in the frequency of revertant colonies were recorded for any of the strains of bacteria, at any dose level either with or without metabolic activation. The test material was considered to be non-mutagenic under the conditions of this test.

Other Health Hazard Information: None.

12. Ecological information

Biodegradability: The biodegradability of the test material was evaluated using the CO₂ Evolution Test in an aerobic aqueous media in accordance with OECD Guidelines for Testing of Chemicals No. 301B (1992) and Method C.4-C of Commission Directive 92/69/EEC (Annex V of Council Directive 67/548/EEC) and US EPA Draft Ecological Effects Test Guidelines OPPTS 835.3110 Paragraph (M). The test material was exposed to activated sewage sludge micro-organisms at a concentration of 10 mg C/l in a sealed vessel for 28 days. The degradation of the test material was assessed by the determination of carbon dioxide produced, as compared to a control solution. The test material attained 92% degradation after 28 days. Although the test material could not be considered ready biodegradable under OECD 301B (failed to satisfy the 10-day window validation criterion), it was considered as ready biodegradable in terms of the classification and labeling requirements under EU Directive for Dangerous Substances, L110A (>70% degradation over a 28-day period).

Aquatic Toxicity: The acute aquatic Toxicity of the test material was evaluated using Daphnia Magna in accordance with OECD Guidelines for Testing of Chemicals No. 202 (1984) and Method C.2 of Commission Directive 92/69/EEC (Annex V of Council Directive 67/548/EEC). The 48-hour EC₅₀ of the test material in the fresh water invertebrate Daphnia Magna based on nominal concentrations was determined to be greater than 100 mg/l. The no observed effect concentration was greater than or equal to 100 mg/l.

13. Disposal considerations

Product Disposal: Dispose of in accordance with local regulations.

Packaging Disposal: Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

14. Transport information

Road and Rail Transport: Not assessed.

Sea Transport (IMDG): Not subject to IMDG code.

Air Transport (ICAO): Not subject to ICAO regulations.

15. Regulatory Information

Applicable Laws: Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace, particularly those relating to the safe use, production, storage and transportation of dangerous chemicals.

Chemical Inventories:

AICS: All ingredients listed or exempt.

DSL: All chemical substances in this material are included on or exempted from the DSL.

IECSC: All ingredients listed or exempt.

MITI: All components are listed on ENCS or its exempt rule.

KECL: All ingredients listed, exempt or notified.

EINECS: All ingredients listed or exempt.

PICCS: All ingredients listed or exempt.

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

16. Other Information

Writing and revising information

Date originally compiled: May 19, 2019

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