

SAFETY DATA SHEET

ACESULFAME POTASSIUM (ACESULFAME K)

CAS No.: 55589-62-3

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Acesulfame Potassium (Acesulfame K)
CAS Number	55589-62-3
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Not classified
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HAZARD CLASSIFICATION

None assigned

HAZARD STATEMENTS

None assigned

PRECAUTIONARY STATEMENTS

None assigned

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Acesulfame Potassium (Acesulfame K)
CAS Number	55589-62-3
Physical State	Solid
Appearance / Odour	White, odorless crystalline powder or granules.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; seek medical attention if irritation persists.
Skin Contact	Wash off with plenty of water; remove contaminated clothing; seek medical advice if irritation develops.
Inhalation	Remove to fresh air; if dust has been inhaled and irritation occurs, seek medical attention.
Ingestion	Rinse mouth with water; if large amounts are swallowed or discomfort occurs, seek medical advice.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, dry chemical, CO ₂ , foam, or alcohol-resistant foam as appropriate for surrounding fire.
Unsuitable Extinguishing Media	None specifically identified.
Special Hazards	Combustible organic solid; thermal decomposition may generate oxides of carbon, nitrogen and potassium oxide fumes. Wear self-contained breathing apparatus for large fires.

6. ACCIDENTAL RELEASE MEASURES

Measures	Sweep or vacuum up avoiding dust generation, collect in a suitable container for disposal or recovery, and avoid inhalation of dust; wash the spill area with water afterward.
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7. HANDLING AND STORAGE

Handling Precautions	Avoid generating and inhaling dust, avoid contact with eyes, and use with adequate general ventilation; keep containers closed when not in use.
Storage Conditions	Store in a cool, dry, well-ventilated place in tightly closed containers, protected from moisture and strong oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No specific occupational exposure limit established; follow general nuisance-dust guidance (e.g., ~10 mg/m ³ total dust); use dust mask, safety glasses and gloves when handling bulk powder.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance / Odour	White, odorless crystalline powder or granules.
Boiling Point	Not applicable (decomposes before boiling)
Melting Point	~225 C (decomposes)
Flash Point	Not applicable
Density / Specific Gravity	~1.5 (true density); bulk density ~0.7-0.9 g/cm3
Water Solubility	Freely soluble, ~270 g/L at 20 C, increasing with temperature
pH Value	6.5-7.5 (1% aqueous solution, essentially neutral)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and use.
Incompatible Materials	Strong oxidizing agents and strong acids.
Hazardous Decomposition	Oxides of carbon, nitrogen, sulfur and potassium on thermal decomposition or combustion.

11. TOXICOLOGICAL INFORMATION

Summary	Low acute oral toxicity; a widely studied and approved high-intensity sweetener (JECFA ADI established) with no evidence of carcinogenicity, mutagenicity or reproductive toxicity in standard testing; fine powder may cause transient mechanical irritation to eyes and respiratory tract.
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12. ECOLOGICAL INFORMATION

Summary	Not expected to be significantly hazardous to aquatic organisms at normal use/disposal concentrations; low bioaccumulation potential; limited but not concerning ecotoxicological data.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of in accordance with local/national regulations; suitable for incineration or licensed landfill; avoid bulk discharge to waterways.
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14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not regulated / non-hazardous for transport
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Approved food additive (INS/E950) under JECFA, US FDA (21 CFR 172.800) and EU regulations; not classified as hazardous under GHS, OSHA HCS or EU CLP; food-grade purity should meet FCC/Codex/FSSAI specifications separately from this SDS.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

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

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