



# SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·  
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,  
Periyamet, Chennai – 600003, India  
**+91 86087 80096 · +91 81979 47045**  
**admin@supremepetrochemicals.com**

## SAFETY DATA SHEET (SDS)

# Mono Sodium Glutamate (MSG) *SDS*

REV 3.1  
29 JULY 2026  
GHS REV.11 (2025)

CAS **6106-04-3**      EC **See ECHA / supplier SDS**      SIGNAL WORD **DANGER**

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

|                     |                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | Mono Sodium Glutamate (MSG)                                                                                                                                                     |
| Product Type        | Monosodium Glutamate — industrial chemical                                                                                                                                      |
| Chemical Family     | Amino acid sodium salt                                                                                                                                                          |
| CAS No.             | 6106-04-3                                                                                                                                                                       |
| EC No.              | See ECHA / supplier SDS                                                                                                                                                         |
| Intended Use        | Industrial / professional use. Flavour enhancer, fermentation intermediate, food-grade and industrial-grade applications. Confirm suitability for final application before use. |
| Restrictions on Use | Industrial / professional use as described on the SPC product page.                                                                                                             |
| Supplier            | <b>Supreme Petro Chemicals</b>                                                                                                                                                  |
| Address             | No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India                                                                                                       |
| Emergency Contact   | Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045                                                                                                                         |
| Email               | admin@supremepetrochemicals.com                                                                                                                                                 |
| Product Page        | <a href="https://www.supremepetrochemicals.com/products/mono-sodium-glutamate-msg">https://www.supremepetrochemicals.com/products/mono-sodium-glutamate-msg</a>                 |
| SDS Revision        | July 2026                                                                                                                                                                       |
| SDS Version         | 3.1                                                                                                                                                                             |

## SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous according to GHS / UN GHS Rev.11 criteria based on available data (PubChem GHS notifications). MSG (CAS 6106-04-3) is a widely used food-grade and industrial amino acid salt with no assigned GHS hazard categories under current classification guidance.



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|                    |                |
|--------------------|----------------|
| GHS Classification | Not classified |
| Signal Word        | Not classified |
| GHS Pictograms     | None           |

## HAZARD STATEMENTS

- None assigned — substance is not classified as hazardous under GHS.

## PRECAUTIONARY – PREVENTION

- P260 — Do not breathe dust.
- P264 — Wash hands thoroughly after handling.
- P270 — Do not eat, drink or smoke when using this product.
- P280 — Wear protective gloves / eye protection as appropriate.

## PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P501 — Dispose of contents / container in accordance with local regulations.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT                  | CAS NO.   | EC NO.                  | % W/W | GHS CLASSIFICATION          |
|----------------------------|-----------|-------------------------|-------|-----------------------------|
| Monosodium glutamate (MSG) | 6106-04-3 | See ECHA / supplier SDS | 100   | Not classified as hazardous |

Percentages are by weight. Full text of H-statements listed in Section 16 (none assigned for this substance).

## SECTION 4 FIRST AID MEASURES

|              |                                                                                                                                             |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Remove person to fresh air. Keep comfortable for breathing. If symptoms persist (coughing, irritation), seek medical attention.             |
| Skin Contact | Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical attention if irritation develops or persists. |
| Eye Contact  | Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if       |



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irritation persists.

|                          |                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ingestion</b>         | Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice if large quantities are ingested or symptoms occur. |
| <b>Note to Physician</b> | Treat symptomatically. No specific antidote. MSG is a low-hazard amino acid salt; supportive care as appropriate.                                            |

## SECTION 5 FIREFIGHTING MEASURES

|                                     |                                                                                                                                                                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b> | Water spray, dry powder, CO <sub>2</sub> , foam — use media appropriate to surrounding fire.                                                                                                                                                                                              |
| <b>Unsuitable Media</b>             | High-pressure direct water jet where it may spread burning material.                                                                                                                                                                                                                      |
| <b>Specific Hazards</b>             | MSG is not classified as flammable. Fine dust may form a combustible or irritating atmosphere at elevated concentrations. Thermal decomposition above 225°C may produce carbon oxides, nitrogen oxides, and irritating fumes. Closed containers may rupture when exposed to intense heat. |
| <b>Protective Equipment</b>         | Wear full protective clothing and self-contained breathing apparatus (SCBA).                                                                                                                                                                                                              |
| <b>Special Procedures</b>           | Evacuate non-essential personnel. Prevent contaminated fire-fighting run-off from entering drains and watercourses.                                                                                                                                                                       |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

|                                  |                                                                                                                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Isolate area. Avoid dust generation. Use personal protective equipment specified in Section 8. Keep unnecessary personnel away.                                                                         |
| <b>Environmental Precautions</b> | Prevent release to drains, sewers, soil and watercourses. Notify authorities if significant environmental release occurs.                                                                               |
| <b>Containment / Clean-up</b>    | Collect spilled powder carefully using a vacuum or wet methods to minimise dust. Place in compatible, labelled containers for disposal through an approved waste contractor. Avoid raising dust clouds. |
| <b>Reference to Sections</b>     | See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.                                                                                                               |



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## SECTION 7 HANDLING AND STORAGE

|                        |                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling Precautions   | Use adequate ventilation. Avoid generating and inhaling dust. Avoid contact with eyes and skin. Keep container tightly closed when not in use. |
| Hygiene                | Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing before reuse.           |
| Storage Conditions     | Store in original, tightly closed compatible containers in a cool, dry, well-ventilated area. Protect from moisture and humidity.              |
| Storage Temperature    | Ambient temperature (15–30°C recommended). Do not freeze.                                                                                      |
| Incompatible Materials | Strong oxidising agents. Avoid contact with concentrated acids and reactive halogen compounds.                                                 |
| Segregation            | Segregate from food for human consumption (unless food-grade use), drink, animal feed and incompatible chemicals.                              |

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

|                             |                                                                                                                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational Exposure Limit | CAS 6106–04–3: No specific OEL established by OSHA, NIOSH, ACGIH, EU SCOEL or India CPCB/MSIHC as of this revision. Apply ALARA / good industrial hygiene practice. Verify current local OEL with competent authority before use.                        |
| Engineering Controls        | Use local exhaust ventilation or enclosed handling systems where dust generation is possible. General dilution ventilation for low-dust operations.                                                                                                      |
| Respiratory Protection      | Where dust is generated and ventilation is inadequate, use a NIOSH/EN 149 approved particulate respirator (minimum FFP2 / P95). Use SCBA for emergency situations.                                                                                       |
| Hand / Eye / Skin           | Gloves: Compatible chemical-resistant gloves (e.g. nitrile or latex) for prolonged handling. Eye: Chemical splash goggles (EN 166 / ANSI Z87.1); safety spectacles for low-dust operations. Skin: Chemical-resistant apron or lab coat. Safety footwear. |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

|            |                                      |
|------------|--------------------------------------|
| Appearance | White crystalline powder or granules |
| Odour      | Practically odourless                |



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|                            |                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------|
| Odour Threshold            | Not established                                                                                     |
| pH                         | Approximately 6.7–7.2 (1% aqueous solution at 20°C)                                                 |
| Melting / Freezing Point   | Approx. 225°C (decomposes); does not have a conventional melting point — decomposes on heating      |
| Boiling Point / Range      | Not applicable — substance decomposes before boiling                                                |
| Flash Point                | Not applicable — not flammable; no flash point                                                      |
| Auto-ignition Temperature  | Not applicable or not established                                                                   |
| Flammability Limits        | Not applicable (non-flammable solid); fine dust may form combustible concentrations — see Section 5 |
| Vapour Pressure            | Negligible at ambient temperature (solid)                                                           |
| Vapour Density (air = 1)   | Not applicable (solid)                                                                              |
| Relative Density           | Approx. 1.62 g/cm <sup>3</sup> at 20°C (supplier / literature value; verify from COA)               |
| Solubility in Water        | Freely soluble: ≥74 g/100 mL at 20°C; practically insoluble in ethanol or diethyl ether             |
| Log Pow (Partition Coeff.) | Negative (highly hydrophilic); exact value not established in reviewed sources                      |
| Evaporation Rate           | Not applicable (solid)                                                                              |
| Viscosity                  | Not applicable (solid)                                                                              |
| VOC Content                | Nil (non-volatile solid)                                                                            |

## SECTION 10 STABILITY AND REACTIVITY

|                         |                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Stability      | Stable under recommended storage and handling conditions.                                                                                                                                                                                                                      |
| Conditions to Avoid     | Heat above 225°C (decomposition), moisture ingress, contamination with incompatible materials.                                                                                                                                                                                 |
| Incompatible Materials  | Strong oxidising agents (e.g. nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl <sub>3</sub> ) under elevated temperature — not a concern under normal ambient storage or blending. |
| Hazardous Decomposition | Thermal decomposition above 225°C may produce carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), sodium oxide and irritating or toxic fumes.                                                                                                            |
| Hazardous Reactions     | No hazardous polymerisation. No hazardous reactions under normal conditions of storage and handling.                                                                                                                                                                           |



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## SECTION 11 TOXICOLOGICAL INFORMATION

|                           |                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Acute Oral Toxicity       | LD <sub>50</sub> (rat, oral): approx. 15,800 mg/kg (PubChem / RTECS). Practically non-toxic by ingestion. Not classified.          |
| Acute Dermal Toxicity     | No data indicating significant dermal toxicity. Not classified.                                                                    |
| Acute Inhalation Toxicity | No specific data. Dust inhalation at high concentrations may cause mechanical irritation of the respiratory tract. Not classified. |
| Skin Irritation           | Not classified as a skin irritant based on available data.                                                                         |
| Eye Irritation            | Dust may cause mechanical eye irritation. Not classified as an eye irritant.                                                       |
| Sensitisation             | Not known to be a skin or respiratory sensitiser.                                                                                  |
| Carcinogenicity           | Not listed as a carcinogen by IARC, NTP, OSHA or EU CLP. Not classified.                                                           |
| Mutagenicity              | No evidence of mutagenicity in standard tests. Not classified.                                                                     |

## SECTION 12 ECOLOGICAL INFORMATION

|                             |                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Toxicity            | No acute or chronic aquatic toxicity classification identified. MSG is rapidly biodegradable and considered of low ecotoxicological concern; avoid large-scale uncontrolled release. |
| Persistence / Degradability | Readily biodegradable. Expected to degrade rapidly in the environment.                                                                                                               |
| Bioaccumulation             | Log Pow is negative; bioaccumulation potential is very low.                                                                                                                          |
| Mobility in Soil            | Highly water-soluble; mobile in soil and groundwater. Prevent release to soil and groundwater.                                                                                       |
| Other Adverse Effects       | Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.                                                           |

## SECTION 13 DISPOSAL CONSIDERATIONS

|                        |                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from Product     | Dispose of contents through an authorised waste contractor in accordance with local and national regulations. Product is readily biodegradable; small quantities may be suitable for controlled disposal via municipal waste streams — verify with local authority. |
| Contaminated Packaging | Empty containers may retain residues. Handle as potentially contaminated until cleaned or disposed. Rinse containers and dispose in accordance with local packaging waste regulations.                                                                              |





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## Indian Regulations

Follow the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and applicable State Pollution Control Board requirements.

## SECTION 14 TRANSPORT INFORMATION

| PARAMETER            | UN / ADR (ROAD) | IMDG (SEA)    | IATA (AIR)    |
|----------------------|-----------------|---------------|---------------|
| UN Number            | Not regulated   | Not regulated | Not regulated |
| Proper Shipping Name | Not regulated   | Not regulated | Not regulated |
| Class                | Not regulated   | Not regulated | Not regulated |
| Packing Group        | Not regulated   | Not regulated | Not regulated |
| Marine Pollutant     | No              | No            | N/A           |

MSG (CAS 6106-04-3) has no UN transport entry. Not classified as a dangerous good under ADR, IMDG or IATA/ICAO. No special transport requirements. Use approved compatible containers for bulk shipment. Verify with carrier before shipment.

## SECTION 15 REGULATORY INFORMATION

### EU / REACH / CLP

Observe REACH and CLP requirements where applicable. Classified and labelled according to the GHS/CLP classification in Section 2 (not classified). MSG is widely used as a food additive (E621) under EU food regulations; confirm grade and application with supplier.

### OSHA (USA)

Prepared in OSHA HCS / HazCom-aligned 16-section SDS format. MSG is GRAS (Generally Recognised as Safe) by FDA for food use; industrial SDS obligations still apply.

### India

Observe applicable Indian MSIHC Rules 1989, Factories Act, FSSAI regulations (food-grade), Hazardous Waste Rules 2016, and State Pollution Control Board requirements.

### Other Jurisdictions

EU: Check food-additive status (E621) vs. industrial use. Canada WHMIS/HPR: classify under WHMIS 2015 using Section 2 classification; Canadian sale may require bilingual SDS/label. China (GB Standards): Apply GB/T SDS and classification requirements where marketed. Australia (AICS): Check inventory status before export or import. Verify TSCA inventory status before US import or distribution. Regulatory scope: final market placement requires confirmation of local OELs, transport class, waste code and restrictions.



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## SECTION 16 OTHER INFORMATION

|               |                                                                                                                                                                                                                                                                          |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared By   | Supreme Petro Chemicals — Technical Department                                                                                                                                                                                                                           |
| SDS Standard  | UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II;<br>Canada WHMIS/HPR — 16-section format                                                                                                                                                                    |
| Revision Date | 24 June 2026                                                                                                                                                                                                                                                             |
| Version       | 3.0 (supersedes prior issues)                                                                                                                                                                                                                                            |
| Key Sources   | SPC product page; PubChem CID 23672308 (MSG); ECHA C&L<br>Inventory; NIOSH / CAMEO Chemicals; original SPC SDS template;<br>consolidated SDS audit CSV dated 27 May 2026; UN GHS Rev.11<br>Annex 4; OSHA HCS Appendix D; EU REACH Annex II / CLP. Accessed<br>June 2026. |
| Disclaimer    | Information is given in good faith and believed accurate at issue. It<br>does not constitute a specification or guarantee; the user is<br>responsible for safe use, handling and compliance.                                                                             |

### FULL TEXT OF H-STATEMENTS

- None — Monosodium Glutamate (CAS 6106-04-3) is not classified as hazardous under GHS. No H-statements are assigned.