



Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
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SODIUM GLUTAMATE

1. Product Identification

Synonyms: Monosodium glutamate; sodium glutamate; MSG, L-(+)-Glutamic acid, mono sodium salt, monohydrate.

CAS No.: 142-47-2 (Anhydrous) 6106-04-3 (Monohydrate)

Molecular Weight: 187.13

Chemical Formula: $\text{HOOCCH}_2\text{CH}_2\text{CH}(\text{NH}_2)\text{COONa}\cdot\text{H}_2\text{O}$

Product Codes: 38256

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
L-Glutamic Acid, Sodium Salt	142-47-2	90 - 100%

3. Hazards Identification

Potential Health Effects

Inhalation: May cause irritation of respiratory tract

Ingestion: Large doses may cause gastro-intestinal upset.

Skin Contact: May cause allergic skin reaction

Eye Contact: Avoid contact with eyes

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

5. Fire Fighting Measures

Fire: Not considered as a fire hazard.

Explosion: Not considered as an explosion hazard.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.



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7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Protect from freezing. Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: Not expected to require any special ventilation. A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved) : Not expected to require personal respirator usage. For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection : Safety glasses.

9. Physical and Chemical Properties

Appearance: White crystalline powder.

Odor: Nearly odorless.

Solubility: Very soluble in water.

Specific Gravity: No information found.

pH: 7.0 (0.2% solution)

% Volatiles by volume @ 21C (70F): 0

Boiling Point: Not applicable.

Melting Point: 232C (450F)

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers.

Conditions to Avoid: No information found.

11. Toxicological Information

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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Investigated as a mutagen and reproductive effector. Oral rat LD50 16,600 mg/kg.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
L-Glutamic Acid, Sodium Salt (142-47-2)	No	No	None

12. Ecological Information

Environmental Fate: Volatilization, adsorption and bioconcentration are not expected to be important environmental fate processes. When released to the air, this material is expected to remain in the particulate phase. When released into the air, this material is not expected to be degraded by photolysis. When released into the air, this material is expected to be readily removed from the atmosphere by dry and wet deposition.

Environmental Toxicity: No information found.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

SARA 311/312: Acute: No Chronic: No Fire: No Pressure: No

Reactivity: No (Pure / Solid)

Poison Schedule: None allocated.

16. Other Information

Product Use:

Laboratory Reagent.