

## Material Safety Data Sheet

### Monosodium Glutamate

#### Section 1: Chemical Product and Company Identification

Product Name : Monosodium Glutamate  
Chemical Formula :  $C_5H_8NO_4Na$   
Company Identification : Tradeasia International Pte Ltd  
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
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Email: [contact@chemtradeasia.com](mailto:contact@chemtradeasia.com)

#### Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Monosodium Glutamate	142-47-2	99

Toxicological Data on Ingredients : Maltol : ORAL (LD50): Acute: 1410 mg/kg [Rat].

#### Section 3: Hazards Identification

##### Potential Acute Health Effects:

Very hazardous in case of inhalation. Hazardous in case of eye contact (irritant), of ingestion. Slightly hazardous in case of skin contact (irritant).

##### Potential Chronic Health Effects:

Very hazardous in case of inhalation. Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant), of ingestion. The substance is toxic to lungs. Repeated or prolonged exposure to the substance can produce target organs damage.

#### Section 4: First Aid Measures

**Eye Contact:** Rinse eyes with plenty of water.

**Skin Contact:** Wash with soap and water.

**Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash mouth with water.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** Non flammable

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>).

**Fire extinguishing Media :** Carbon Dioxide (CO<sub>2</sub>), water spray, Dry chemical and alcohol foam

## Section 6: Accidental Release Measures

### Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**Personal Precautions :** Avoid inhalation and direct contact with skin and eye.

**Environmental Precautions:** Prevent entry into drains. Avoid creating dust.

**Methods of Cleaning Up :** Sweep up and put in seal tight container and incinerate. Flush away residues with water.

## Section 7: Handling and Storage

### Precautions:

Provide appropriate exhaust ventilation at places where dust is formed.

### Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles.

## Section 8: Exposure Controls/Personal Protection

**Exposure limits :** Avoid contact with eyes, skin, clothing, and breathing vapor.

**Personal protective equipment:** Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

**Respiratory protection :** Required when vapors/aerosols are generated.

**Eye protection :** Wear eye/ face protection

**Hand protection :** Wear suitable gloves. Wash hands after working with substance.

**Industrial Hygiene :** Change contaminated clothing. Application of skin-protective barrier cream recommended.

## Section 9: Physical and Chemical Properties

Physical state	: White crystalline powder
Color	: White to pale yellow
Molecular Weight	: 169.11 g/mole
Melting Point	: 232 °C
pH	: 6.7 – 7.2
Solubility in Water	: 74.0 g/ 100 ml of water at 25°C.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable in ambient conditions.

**Incompatible with various substances :** Incompatible materials

**Hazardous Decomposition Products :** Carbon monoxide and carbon dioxide

**Polymerization :** will not occur

## Section 11: Toxicological Information

**Acute toxicity –** Primary Irritant effect.

**Routes of entry :** Inhalation & ingestion

**Chronic Effects on Humans:**

**MUTAGENIC EFFECTS:** Mutagenic effects have been observed on tests with bacteria.

#### **Additional toxicological information:**

Other than potential irritation, no information on illness from acute or chronic exposure is available for this product. No classification data on carcinogenic properties of this product is available from the EPA, IARC, NTP, OSHA or ACGIH.

#### **Section 12: Ecological Information**

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

#### **Toxicity of the Products of Biodegradation:**

The products of degradation are more toxic.

#### **Special Remarks on the Products of Biodegradation :**

Decomposes and burns to form smoke, carbon monoxide and carbon dioxide. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

#### **Section 13: Disposal Considerations**

#### **Waste Disposal :**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### **Section 14: Transport Information**

The materials transportation by vehicles, the sender serves deliverers with instructions for safe handling. In transportation confirm leakless of the container, and load the materials not to upset, fall and damage. Secure preventing the load from falling.

#### **Section 15: Other Regulatory Information**

**Federal and State Regulations:** TSCA 8(b) inventory: Monosodium Glutamate

#### **Other Classifications:**

**WHMIS (Canada) :** Not controlled under WHMIS (Canada).

**DSCL (EEC):** R36- Irritating to eyes.



**HMIS (U.S.A.):**

Health Hazard: 0

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

**National Fire Protection Association (U.S.A.):**

Health: 0

Flammability: 1

Reactivity: 0

**Specific hazard:**

**Protective Equipment:**

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

**Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

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