

**SAFETY DATA SHEET  
MONOSODIUM GLUTAMATE**

**SDS No. 025-3**

<b>1. IDENTIFICATION</b>	
<p><b>Product identifier:</b> MSG-Monosodium Glutamate</p> <p><b>Other means of identification</b></p> <ul style="list-style-type: none"> <li>- <b>Chemical name:</b> Monosodium L-Glutamate monohydrate, Sodium 2-aminopentanedioate.</li> <li>- <b>Synonyms:</b> MSG, Sodium glutamate, Natriumglutamate, Glutamate monosodium salt.</li> </ul> <p><b>Recommended use:</b> used as food additive at customary levels.</p> <p><b>Restrictions on use:</b> Not for use as a drug and no consuming more than 3 grams of MSG without food at one time.</p>	<p><b>Manufacturer/Importer/Supplier/Distributor information:</b></p> <p>Company: VEDAN VIETNAM ENTERPRISE CORP., LTD.</p> <p>Address: National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District, Dong Nai Province, Vietnam</p> <p>Tel: (+84)251-3825111, Fax: (+84)251-3825138</p> <p>Website: <a href="http://www.vedan.com.vn">www.vedan.com.vn</a></p> <p>Emergency Phone Number: (+84)1800.599.902</p>
<b>2. HAZARD(S) IDENTIFICATION</b>	
<b>Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)</b>	
<p><b>Health Hazards:</b></p> <ul style="list-style-type: none"> <li>- Acute toxicity:</li> <li>- Skin corrosion/irritation:</li> <li>- Eye irritation:</li> <li>- Respiratory or skin sensitization:</li> <li>- Germ cell mutagenicity:</li> <li>- Carcinogenicity:</li> <li>- Reproductive toxicity:</li> <li>- Specific target organ toxicity (single or repeated exposure):</li> <li>- Aspiration hazard:</li> </ul> <p><b>Physical Hazards:</b></p> <ul style="list-style-type: none"> <li>- Explosives:</li> <li>- Flammable (gases, aerosols, liquids, or solids):</li> <li>- Oxidizing (liquids, solids or gases):</li> <li>- Self-reactive:</li> <li>- Pyrophoric (liquids or solids):</li> </ul>	<p><b>The classification criteria are not met</b></p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p><b>The classification criteria are not met</b></p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p> <p>Not classified</p>



- Self-heating: Not classified
- Organic peroxides: Not classified
- Corrosive to metals: Not classified
- Gas under pressure: Not classified
- In contact with water, emits flammable gases: Not classified

**Label elements:**

- Hazard symbol(s): No symbol
- Signal word: Not available
- Hazard statement(s): Not available
- Precautionary statement(s): Not available

**Hazards not otherwise classified (HNOC):**

Not classified

**NFPA 704:**

Health:0; Flammability:0; Reactivity: 0

**Unknown acute toxicity:**

Not available % of the mixture consists of ingredients of unknown toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

No hazardous components as specified in Directive 67/548/EEC

Chemical name	Monosodium glutamate	NAS- No	2756
CAS-No	6106-04-3	HS code	29224220
EC-No	205-538-1	E-No	E 621

Component	CAS-No	Weight%
MSG	6106-04-3	Min 99

**4. FIRST AID MEASURES**

- Inhalation: Fresh air. Get medical attention if symptoms develop and persist
- Skin contact: Wash off with water. Get medical attention if irritation develops and persists
- Eye contact: Rinse out with water. Get medical attention if irritation develops and persists
- Ingestion: After swallowing of large amounts, consult doctor if feeling unwell.
- Most important symptoms/effects, acute and delayed: Not available
- Indication of immediate medical attention and special treatment needed: Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water, foam.
Unsuitable extinguishing media:	Not available
Specific hazards arising from the chemical:	Practically non-combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Nitrogen oxides may develop in event of fire.
Special protective equipment and precautions for fire-fighters:	Be prepared full of functionally protective equipment. In all fires, it is important to evacuate personnel to a safe area.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Avoid generation of dust; do not inhale dust. Do not make any actions unless wearing appropriate protective clothes and being assisted. Ensure enough ventilation.
Methods and materials for containment and cleaning up:	Take spillage up dry and use containment suitable for disposal. Clean up affected area. Do not allow this chemical to enter sewerage system.

### 7. HANDLING AND STORAGE

Precautions for safe handling:	Store protected from solvents. Prevent being contact with skin and eyes. No inhalation of dusts, mists and vapors.
Conditions for safe storage, including any incompatibilities:	Tightly closed. Dry. At room temperature..

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA permissible Exposure Limits (PELs)	Not available
American conference of Govern mental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs)	Not available
Appropriate engineering controls:	Use local exhaust ventilation
Individual protection measures, such as personal protective equipment (PPE):	
- Eye/face protection	Wear qualified glasses, masks
- Skin protection	Designated clothes, boots and gloves.
- Respiratory protection	Appropriate respirator gear

Special requirement for PPE:

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:	Crystals or crystalline powder
- Physical state:	Solid
- Colour:	White or light white
- Odor:	Odorless
- Odor threshold:	Not available
- pH:	6.7-7.2 (2% solution) (20 °C)
- Melting point/freezing point:	Melting point at 449.6 °F (232 °C )
- Initial boiling point and boiling range:	Not available
- Flash point:	Not available
- Flammability(solid, gas):	Not flammable
- Upper/lower flammability or explosive limits:	Not flammable.
- Vapor pressure:	Not available.
- Vapor density:	Not available.
- Relative density:	Not available.
- Solubility (ies):	Not available.
- Partition coefficient; n-octanol/water:	Not available.
- Auto-ignition temperature:	Not available.
- Decomposition temperature:	Not available.
- Viscosity:	Not available.
- Molecular formula (Hill):	C <sub>5</sub> H <sub>8</sub> NNaO <sub>4</sub> .H <sub>2</sub> O
- Molecular weight:	187.13 g/mol

## 10. STABILITY AND REACTIVITY

- Reactivity:	No reactivity hazards.
- Chemical stability:	Stable under normal condition

- Possibility of hazardous reactions:	None
- Conditions to avoid (static discharge, shock, or vibration):	Not available.
- Incompatible materials:	Not available.
- Hazardous decomposition products:	Development of hazardous combustion gases or vapours possible in the event of fire. Nitrogen oxides may develop in event of fire. And water of crystallization is released when heated

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation:	The classification is not available
Ingestion:	The classification is not available
Skin and eyes contact:	The classification is not available

Symptoms related to the physical, chemical and toxicological characteristics:

After uptake of large quantities, symptoms of nausea, vomiting, dyspnoea may occur.

Delayed and immediate effects and also chronic effect:

The FASEB report identified some short term, transient, and generally mild symptoms, such as headache, numbness, flushing, tingling, palpitations, and drowsiness that may occur in some sensitive individuals who consume 3 grams or more of MSG without food (FDA, 2012).

Carcinogens (listed in NTP report or IARC monographs):

None

OHSA hazards:

The classification criteria are not met

Acute toxicity estimates:

Generally recognized as safe (GRAS)

Product	Species	Test Results
Monosodium Glutamate (CAS 6106-04-3)	Mouse	16400 mg/kg
LD50 (Oral)	Rat	15800 mg/kg

### 12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available):	None
Persistence and degradability:	Not available
Bioaccumulative potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	Not available

### 13. DISPOSAL CONSIDERATIONS

- Product: There are no uniform EC Regulations for the disposal of monosodium L-glutamate

monohydrate or residues. Monosodium L-glutamate monohydrate residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

- Packaging: Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

#### 14. TRANSPORT INFORMATION

DOT: Not regulated

TDG: Not regulated

IATA (air): Not regulated

IMDG/IMO: Not regulated

#### 15. REGULATORY INFORMATION

##### ❖ US Federal regulations:

- TSCA 12(b): Not applicable
- SARA 313: Not applicable
- SARA 311/312 Hazardous Categorization:
  - Immediate Hazard: No
  - Delayed Hazard: No
  - Fire Hazard: No
  - Pressure Hazard: No
  - Reactivity Hazard: No
- Safe Drinking Water Act (SDWA): Not regulated
- Food and Drug Administration (FDA): Not regulated
- California Proposition 65: This product does not contain any Proposition 65 chemicals

##### ❖ Other International Regulations

- WHMIS Hazard Class: Non-controlled
- Food additives (EC) 1333/2008: Flavor enhancers, point 14 Annex I
- Labelling according to EC Directives
  - Symbol: Not available
  - R-phrases: Not available
  - S-phrases: Not available

#### 16. OTHER INFORMATION

This document has been updated to comply with the US OSHA HazCom 2012 Standard to align



with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Prepared by: QA department

Last Revised: 12/04/2020

The information contained in this Safety Data Sheet is correct to our best knowledge. It characterizes the product with regard to the appropriate safety precautions. However, It does not represent a guarantee of the properties of the product. Noticeably, the condition of use can be variable and may not be valid for using in combination with any other material on in any process out of the text.



*Chao When Jui*  
CHAO WHEN JUI

p.p. General Manager