

Material Safety Data Sheet

Hydrolysed Vegetable Protein

Section 1 - Product Identification

Synonyms : HVP, Vegetable Protein Hydrolysate
Molecular Weight : Not available
Chemical Formula : Not available
Company Identification : Tradeasia International Pte. Limited
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Recommended use of the chemical and restrictions on use:

The product is widely used in the food industry as a food additive and a flavour enhancer. In the agricultural industry, it is used as a fruit fly attractant.

Section 2 – Composition/Information on Ingredients

Product Name	EC/CAS No
Hydrolysed Vegetable Protein	309-353-8/100209-41-4

Section 3 – Hazards Identification

3.1 Likely routes of exposure

Skin and eye contact and ingestion. May cause minor irritation to skin and eyes of limited duration. May irritate damaged skin. May cause redness and pain of eyes. May cause mild nausea, diarrhoea or abdominal pain if large quantities are swallowed. Dehydration and congestion may occur in most internal organs. Hypertonic salt solutions can produce violent inflammatory reactions in the gastrointestinal tract. Product not regarded as harmful. Product is used as a flavouring agent and flavour enhancer in many food products. This product is suitable for use in foods and conforms to the requirements of the Foodstuffs, Cosmetics and Disinfectants Act no. 54 of 1972.

3.2 Label elements

The product does not need to be labelled in accordance to GHS

3.3 Other hazards

None

Section 4 – First-Aid Measures

4.1. Description of first aid measures

Skin contact

Move victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash off with soap and plenty of water, do not rub the skin. If irritation persists, obtain medical attention.

Eye contact

Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

Inhalation

If symptoms such as nose or throat irritation are observed, remove to fresh air. If not breathing, give artificial respiration.

Ingestion

Rinse mouth with water. Do not induce vomiting. Drink as much water as possible. If large amounts are swallowed (i.e. more than one teaspoon), contact a doctor or toxicity centre immediately.

4.2. Most important symptoms and effects, both acute and delayed

Most important known symptoms and effects are described in the labelling (section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

N.A.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

Use alcohol-resistant foam, dry chemical or carbon dioxide. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product.

5.2. Specific hazards arising from the chemical

N.A.

5.3. Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. In case of exposure to prolonged or high level of airborne dust, wear a personal respirator in compliance with national legislation. Avoid breathing dust, vapors, mist or gas.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal and do it in accordance with applicable local regulations. See section 13 for disposal.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Avoid contact with eyes and skin. Handle product with caution. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a nonabrasive soap and put on clean clothing. Operators should change and wash clothing after use. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination

7.2. Conditions for safe storage, including any incompatibilities

Store in its original, labelled and closed container in dry, cool, shaded, well-ventilated area. Do not store with other fertilizers, seeds, foodstuffs and water supplies. Store away from incompatible substances. Product is incompatible with concentrated nitric or sulphuric acid and strong oxidizing agents. Keep out of reach of unauthorized persons, children and animals. Local regulations should be complied with.

Section 8 – Exposure Controls/Personal Protection

8.1. Control parameters

It is essential to provide adequate ventilation. The measures appropriate for a work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

8.2. Appropriate engineering controls

General industrial hygiene practice. Wash hands before breaks and at the end of workday.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Respirator:

It is usually safe to use the product without a mask or respirator. If the product is used in dusty or confined conditions or spillage and fire conditions a respirator suitable and approved for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

Clothing:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves:

Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection:

Wear safety goggles or face shield.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance : Yellow to brown powder

Odour : Yeast-like odour

Odour threshold : N.A.

pH @ 20°C : 5 – 5.6

Melting point : N.A.

Boiling point : N.A.

Flash point : N.A.

Evaporation rate : N.A.

Flammability : N.A.

Upper/lower flammability or explosive limits : N.A.

Vapour pressure : N.A.

Vapour density : N.A.

Relative density : 1.20-1.25g/cm³

Solubility in water : Soluble

Section 10 – Stability and Reactivity

10.1. Reactivity

Stable under normal temperatures and storage conditions

10.2. Chemical stability

Stable under recommended storage conditions, below 30°C and above 0°C.

10.3. Possibility of hazardous reactions

N.A.

10.4. Conditions to avoid:

N.A.

10.5. Incompatible materials

Incompatible with concentrated nitric or sulphuric acid and other strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition products may include smoke, CO, CO₂, ammonia, chloride and sodium oxide

Section 11 – Toxicological Information

Information on toxicological effects

Acute oral LD50: (calculated) > 5000 mg/kg.

Acute dermal LD50: Minor irritant. May irritate damaged skin.

Inhalation: Not likely to occur.

Acute skin irritation: Minor skin irritant. May irritate damage skin.

Acute eye irritation: Minor eye irritant.

Other effects: Persons with known or suspected allergies may be affected.

This product does not contain MSG, peanut, soya, milk, eggs, fish, crustacean, molluscs, tree nuts, celery, seeds, yeast, wheat gluten, colourants, sulphur dioxide or antioxidants. This product contains maize/corn, hydrolyzed vegetable protein and salt or salt-substitute.

Carcinogenicity: Not identifiable.

Section 12 – Ecological Information

12.1. Toxicity

N.A

12.2. Persistence and degradability

This product is regarded as very biodegradable.

12.3. Bioaccumulative potential

N.A

12.4. Mobility in soil

N.A

12.5. Other adverse effects

N.A

Section 13 – Disposal Considerations

13.1. Disposal methods

Product:

Open dumping or burning of this product is prohibited. Waste resulting from the use of this product that cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

Container disposal:

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils. Comply with local legislation applying to waste disposal.

Section 14 – Transport Information

14.1. UN number : N.A.

14.2. UN proper shipping name : N.A

14.3. Transport of hazard classes : N.A

14.4. Packing group : N.A

14.5. Environmental hazards : N.A.

14.6. Special precautions for user : N.A

14.7. Incompatible materials: N.A.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations for the substance/mixture:

Symbol: Xi

Indication: Irritant.

Risk phrases:

R 36/38 Irritating to eyes and skin.

Safety phrases:

S 2 Keep out of reach children.

S 24/25 Avoid contact with skin and eyes.

S 37/39 Wear gloves and eye/face protection.

S 60 This material and its container must be disposed of as hazardous waste.

Section 16 : Additional Information

16.1. Disclaimer of Liability

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