

SAFETY DATA SHEET
MODIFIED STARCH

SDS No. SDS 030-2

1. PRODUCT AND SUPPLIER IDENTIFICATION		
Ingredient	CAS number	Name and address of manufacturer: VEDAN (VIETNAM) ENTERPRISE CORPORATION LIMITED
See section 3	See section 3	
EC number: N/A		National Road 51, Hamlet 1A, Phuoc Thai village, Long Thanh District, Dong Nai Province, Vietnam Tel: (+84)251-3825111, Fax: (+84)251-3825138 Emergency phone number:(+84)1800.599.902
Common name of the substance: See section 3		
Trade name:		
Recommended use: Used for the food processing. The content and target audience comply with Circular No. 24/2019/TT-BYT dated 08/30/2019 issued by Ministry of Health on food additives management and use.		Contact address in case of emergency: VEDAN (VIETNAM) ENTERPRISE CORPORATION LIMITED Tel: (+84)251-3825111. Emergency phone number:(+84)1800.599.902
2. HAZARDS IDENTIFICATION		
<p>a) GHS classification and information classified in accordance with available valid data provided by countries, areas or testing organizations</p> <p>The product is not classified as a dangerous substance according to Vietnamese law and European Union law.</p> <p>b) GHS label elements</p> <p>In Vietnam: Labeling contents are under the guidance of Decree 43/2017 / ND-CP on goods labels, Circular 32/2017 / TT-BCT specifying and guiding the implementation of some articles of chemical law and decree 113/2017 / ND-CP dated October 9, 2017 of the Government detailing and guiding the implementation of some articles of chemical law.</p> <p>For export: Labeling contents are according to legal regulations of importing countries.</p> <p>Precautionary statements:</p> <p>Products which are unlikely to cause unsafety, in conditions of transport, storage and preservation, for proper use and for the right purpose, without causing harm to humans, animals, plants, property and the environment.</p> <p>Storage instructions:</p> <p>See section 7.</p> <p>Instructions for use:</p> <p>Used for the food processing. The content and target audience comply with Circular No. 24/2019/TT-BYT dated 08/30/2019 issued by Ministry of Health on food additives management and use.</p> <p>c) Other hazards</p> <p>No data available</p>		



3. COMPOSITION/INFORMATION ON INGREDIENTS

Common name of the substance	Ingredient	CAS number	Content (% by weight)
Oxidized starch (INS 1404)	Oxidized starch	65996-62-5	≥ 85%
Distarch phosphat (INS 1412)	Distarch phosphate	55963-33-2	≥ 85%
Distarch phosphat acetylal (INS 1414)	Distarch phosphate acetylate	68130-14-3	≥ 85%
Starch acetate (INS 1420)	Starch acetate	9045-28-7	≥ 85%
Starch acetate esterified with vinyl acetate (INS 1421)	Starch acetate esterified with vinyl acetate	9045-28-7	≥ 85%
Acetylated distarch adipate (INS 1422)	Acetylated distarch adipate	63798-35-6	≥ 85%
Starch sodium octenyl succinate (INS 1450)	Starch sodium octenyl succinate	66829-29-6	≥ 85%
Acetylated oxydized starch (INS 1451)	Acetylated oxydized starch	68187-08-6	≥ 85%

4. FIRST-AID MEASURES

a) Measures relevant to the route of exposure

- Accident in case of eye exposure (splashed, touched on the eyes): Rinse out with water. If the level of injury is serious, immediately take to an eye specialist.
- Accident in case of skin exposure (touched on skin): Wash off with water/shower.
- Accident in case of respiration exposure (breathing under form of vapor, gas): Fresh air.
- Accident in case of ingestion exposure (eating, drinking, swallowing): Consult doctor if feeling unwell.

b) Most important symptoms/effects, acute and delayed

No data available.

c) Indication of immediate medical attention and special treatment needed

No data available.

5. FIRE-FIGHTING MEASURES

a) Suitable extinguishing media

Using all available means for extinguishing a fire.

b) Toxic substances emitted from fires

Combustible. Danger of dust explosion. A fire may liberate hazardous vapours/gases.

c) Special protective equipment and precautions for fire fighting.

Suitable extinguishing media are stored in the immediate neighborhood. Do not stay in the danger zone without suitable protection clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

a) Personal protective equipment and emergency procedures

Personal protective equipment: See section 8.

Emergency procedures: Prevent from spreading or entering drains, ditches or rivers by using sand, soil, or other appropriate barriers. Inform the local authorities if the spill is not controlled. Avoid generation of dusts; do not inhale dusts.

b) Environmental precautions

Leakage can cause pollution. Precautions should be taken to prevent from spreading or entering drains.

c) Methods and materials for containment and cleaning up

Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

7. HANDLING AND STORAGE

a) Measures and requirements for safe handling (e.g., ventilation, only using in closed systems, using explosion-proof electrical equipment, internal transport, etc.)

Need to equip personal protective according to item 8

~~**b) Measures and requirements for safe storage** (e.g., temperature, arrangement, limits to sources of explosion and avoidance of storing some chemicals together, etc.).~~

- Handling: Keep At room temperature in a dry, cool place and covered.
- Storage: Stored in the sealed packaging. Do not close to flammable, explosive, toxic substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

a) Control parameters (e.g., occupational exposure limit values or biological limit values)

The product does not contain any substances that need to control limit values of occupational exposure.

b) Appropriate engineering controls

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

c) Individual protection measures and personal protective equipment

- Respiratory protection: Required when dusts are generated.
- Eyes/Face protection: Required when dusts are generated.
- Hand protection: Recommended.

Hygiene measures: General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Physical state: Powder	b) Boiling point (°C): Not applicable
c) Color: White	d) Melting point (°C): Not applicable
d) Particular odour : Odorless	e) Flash point(°C) (Flash point) by determination method: Not applicable
g) Vapor pressure (mm Hg) at standard temperature, pressure : No information	h) Self-ignition temperature (°C): Not applicable
i) Gas proportion (air = 1) at standard	k) Upper flammability/explosive limits(% of mixture with air):

temperature, pressure: not applicable	Not applicable
l) Solubility in water: Insoluble in cold water (unless getting gelatinized first), forming a typical glue solution in hot water.	m) Lower flammability/explosive limits (% of mixture with air): Not applicable
n) pH: (20 % solution): 5.0-7.0	o) Evaporation rate: Not applicable
p) Relative density (kg/m ³): No information	k) Other property if any: No information

10. PRODUCT STABILITY AND REACTIVITY

a) Possibility of reactions

Reacts with strong oxidizing agents.

b) Stability (heat resistance, sensitivity to the effects of friction, shock, etc.)

Stable under recommended conditions of use and preservation.

c) Dangerous reactions (corrosion, fire, explosion...)

No hazardous reactions under normal conditions of use and storage.

d) Conditions to avoid (Ex: electrostatic, vibration, shaking ...)

~~Strong heating (decomposition).~~

d) Incompatible materials

No information

e) Decomposition reaction and products of the decomposition reaction

No information

11. TOXICOLOGICAL INFORMATION

a) Information about the likely routes of exposure

- Accident in case of eyes exposure: No information.
- Accident in case of skin exposure: Slight irritations.
- Accident in case of inhalation exposure: Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

Accident in case of ingestion exposure: The product is not considered a hazard when swallowed with not too much quantity

b) Symptoms related to product, toxicological and ecotoxicological characteristics

No information.

c) Immediate, delayed and chronic effects from short-term and long-term exposure

No toxic effects are to be expected when the product is handled appropriately.

d) Numerical measures of toxicity (acute toxicity estimates)

No information

12. ECOLOGICAL INFORMATION

a) Ecotoxicity (aquatic and terrestrial): No information.

b) Persistence and degradability: Readily biodegradable.

c) Bioaccumulative potential: No information.

d) Mobility in soil: No information.

đ) Other adverse effects: No information.

13. DISPOSAL CONSIDERATIONS

- Product: Observe local and national environmental regulations on disposal.
- Packaging: Disposal of the packaging as applied to the product.

14. TRANSPORT INFORMATION

- The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
- Transportation must be dry, clean, having roof covering and non strange smelt can affect to food quality.

15. REGULATORY INFORMATION

Shall comply with:

- Law on Product and Goods Quality No. 05/2007/QH12.
- Law on Food Safety No. 55/2010/QH12.
- Product quality must comply with QCVN 4-18: 2011/BYT "National technical regulation on food additives – Starch Product".
- Labelling contents under the guidance of Decree No. 43/2017/NĐ-CP about labelling.
- Other relevant legal documents.
- OSHA Hazards: No known OSHA hazards.
- California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Date of compiling slip: 29/11/2017

Latest date of modification, addition: 11/12/2019

Name of compiling organization or individual: VEDAN (VIETNAM) ENTERPRISE CORPORATION LIMITED

Note for reader:

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.



24/04/2020
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Manager
R&D and QA