



Vedan Vietnam Enterprise Corp., Ltd.

National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District,
Dong Nai Province, Vietnam.

Tel: 84-251-3825111 , Fax: 84-251- 3543167 E-mail: Export2@vedaninternational.com

MATERIAL SAFETY DATA SHEET

(MSDS)

1- IDENTIFICATION OF THE MATERIAL AND MANUFACTURER

Product Name **MODIFIED STARCH**
Product name : **CBA - 8858**
Synonyms NATIVE TAPIOCA (CASSAVA) STARCH AND MODIFIED TAPIOCA STARCH
Usages FOOD GRADE
Manufacturer **VEDAN VIETNAM ENTERPRISE CORP., LTD**
Address National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District,
Dong Nai Province, Vietnam.
Emergent Telephone +84 251 3825111
Fax +84 251 3543 167
Date: April 28, 2022

2- HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

3- COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient | Formula | Conc. | CAS No. |
|-------------------|----------------|--------------|----------------|
| Starch | | >85% | Not Available |

4- FIRST AID MEASURES

Eye Flush gently with running water. Seek medical attention if irritation develops.
Inhalation Move individual to fresh air.
Skin Gently flush affected areas with water.
Ingestion Ingestion is considered unlikely. For advice, if ingested, drink water, do not induce vomiting. Get medical attention or see a doctor.
Advice To Doctor Treat symptomatically.

5- FIRE FIGHTING MEASURES

Flammability Combustible - potentially explosive dust when exposed to heat or ignition sources. Will evolve toxic carbon oxides when heated to decomposition.
Fire and Explosion Combustible - potentially explosive dust. Evacuate area and contact emergency services. Toxic gases may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Hazchem Code None Allocated



Vedan Vietnam Enterprise Corp., Ltd.

National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District,
Dong Nai Province, Vietnam.

Tel: 84-251-3825111 , Fax: 84-251- 3543167 E-mail: Export2@vedaninternational.com

6- ACCIDENTAL RELEASE MEASURES

Spillage If spilt (bulk), wear dust-proof goggles, PVC/rubber gloves, and a Class P1 (Particulate) respirator where a dust inhalation risk exists. Collect and place in sealable containers for disposal. Avoid generating dust.

7- HANDLING AND STORAGE

Handling Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal hygiene. Prohibit eating, drinking and smoking in contaminated areas. Wash hands before eating. Remove contaminated clothing and protective equipment before entering eating areas.

Storage Store in cool, dry, well ventilated area, removed from oxidising agents and heat sources. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Suitable storage containers: paper, calico, plastic or jute bags. Bulk storage is suitable in concrete or steel silos.

8- EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation No special ventilation precautions are normally required when handling this product.

Exposure Standards An exposure standard (ES-TWA, ES-STEL, WES) has not been allocated to the ingredients contained in this product.

PPE No personal protective equipment is normally required. When using large quantities or where heavy contamination is likely, wear dust-proof goggles and PVC or rubber gloves. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator.

9- PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---------------------------|
| Appearance | WHITE POWDER |
| Odour | SLIGHT ODOUR |
| Vapour Pressure (mm - Hg): | NOT AVAILABLE |
| Vapour Density (AIR = 1): | NOT AVAILABLE |
| Boiling Point | NOT VOLATILE |
| Melting Point | NOT AVAILABLE |
| Evaporation Rate | NOT AVAILABLE |
| Solubility (water) | NOT SOLUBLE IN COOL WATER |
| Specific Gravity | 0.63 - 0.71 |
| % Volatiles | NOT RELEVANT |
| Flammability | COMBUSTIBLE |
| Flash Point | NOT AVAILABLE |
| Upper Explosion Limit | NOT AVAILABLE |
| Lower Explosion Limit | NOT AVAILABLE |
| Autoignition Temperature: | 360°C ~ 570°C |



Vedan Vietnam Enterprise Corp., Ltd.

National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District,
Dong Nai Province, Vietnam.

Tel: 84-251-3825111 , Fax: 84-251- 3543167 E-mail: Export2@vedaninternational.com

10- STABILITY AND REACTIVITY

Reactivity Incompatible with strong oxidising agents.
Decomposition Products Will evolve toxic carbon oxides when heated to decomposition.

11- TOXICOLOGICAL INFORMATION

Health Hazard Summary Low toxicity - low irritant. No adverse health effects are anticipated with normal use of this product.
Eye Low irritant. Exposure may result in irritation and lacrimation.
Inhalation Low irritant. Over exposure may result in mucous membrane irritation of the nose and throat with coughing. The manufacturer reports that prolonged inhalation of this product may cause "Baker's Asthma".
Skin Low irritant. Prolonged contact may result in irritation.
Ingestion Non toxic. May cause allergic reactions in individuals who are intolerant to manioc products (Coeliac disease).

12- ECOLOGICAL INFORMATION

Environment This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities. Not expected to bioaccumulate.

13- DISPOSAL CONSIDERATIONS

Waste Disposal No special precautions are required for the disposal of this product.
Legislation Dispose of in accordance with relevant local legislation.

14- TRANSPORTATION INFORMATION

Transport Not classified as a Dangerous Good according to the Vietnamese Code for the transport of Dangerous Goods by Road and Rail.
UN Number None Allocated
DG Class None Allocated
Subsidiary Risk(s) None Allocated
Packing Group None Allocated
Hazchem Code None Allocated

15- REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).



Vedan Vietnam Enterprise Corp., Ltd.

National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District,
Dong Nai Province, Vietnam.

Tel: 84-251-3825111 , Fax: 84-251- 3543167 E-mail: Export2@vedaninternational.com

16- OTHER INFORMATION

Additional Information

WORKPLACE CONTROLS AND PRACTICES: Unless a less toxic chemical can be substituted for a hazardous substance. **ENGINEERING CONTROLS** are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this MSDS is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made. Information provided by the Quality Assurance Department is summarised for ease of use.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a guideline which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Report Status

The information contained in this Material Safety Data Sheet has been compiled as an independent source of information by the Quality Assurance Department of Vedan (Vietnam) Enterprise Corp., Ltd based on the latest chemical and toxicological research and, where appropriate, in compliance with relevant standards, guidance notes and legislation. The data is believable to be correct but nothing contained herein should be construed as warranty, expressed or implied. It's offered solely for your consideration and reference for the adoption of necessary safety precautions.

Update date April 28, 2022