

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- a. Product name : UNIFILMA HVY
Product code : H100140
- b. Information on manufacturer/supplier/distributor
Company name : Chiba Flour Milling Co., Ltd.
Address : 17 Shinminato, Mihama-ku, Chiba, Japan
Phone number : +81-43-241-0111
Emergency phone : +81-43-241-0111
number
E-mail address: kikaku@chiba-seifun.co.jp
- c. Recommended use : Additive
of the chemical

SECTION 2: Hazards identification

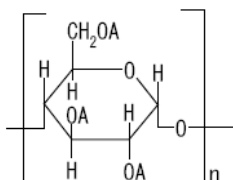
- a. GHS Classification (The guidance of GHS classification (Mar. 2015, Japan) for industries is used.)
: Not a hazardous substance.
- b. Label elements : Not a hazardous substance.
- c. Other hazards : Designated flammable goods
(Fire and Disaster Management Act. Article 9 paragraph 4 in JAPAN)

SECTION 3: Composition/information on ingredients

Chemical substance

Chemical name or common name : Dextrin isostearate

Chemical properties (Rational formula or chemical structure):



A : Isostearoyl group or hydrogen, n: Degree of polymerization

CAS No. : 116580-54-2

Serial no. of government
gazette (A) : 8-(4)-1906

(A) Industrial Safety and Health Act

Impurities and stabilizing additives : None
contributed to classification

Product Name: UNIFILMA HVY

Content or content range	: 95% or more
Impurities contained less than the lower concentration limit of mixture as per GHS classification	: Methanol < 5ppm (Detection Limit. Internal test.) Heptane < 200ppm β -Picoline < 300ppm
Impurities not contributed to classification	: Isostearic acid 5% or less

SECTION 4: First aid measures

- a. Description of first aid measures
 - Protection of first-aiders : No special precautions are necessary for first aid responders.
 - If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
 - In case of skin contact : Wash with water and soap as a precaution.
Get medical attention if symptoms occur.
 - In case of eye contact : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.
 - If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.
- b. Most important symptoms and effects, both acute and delayed
None known.
- c. Indication of any immediate medical attention and special treatment needed
Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

- a. Extinguishing media
 - Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
 - Unsuitable extinguishing media : None known.
- b. Special hazards arising from the substance or mixture
 - Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.
 - Hazardous combustion products : Carbon oxides
- c. Advice for firefighters
 - Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.
 - Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

a. Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice and personal protective equipment recommendations.

b. Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

c. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

d. Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

a. Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

b. Storage

Technical measures : Avoid fire, sources of heat.

Requirements for storage areas and containers : Keep in properly labelled containers. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents

Recommended storage temperature : Store in a cool and dark area, away from direct sunlight, high temperature and high humidity.

Container and packaging material : Recommend to keep container unopened.

SECTION 8: Exposure controls/personal protection

a. Control parameters

Contains no substances with occupational exposure limit values.

b. Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Personal protective equipment

Eye protection : Wear the following personal protective equipment:
Safety glasses

Hand protection

Material : Rubber gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often!

Skin and body protection : Skin should be washed after contact.

Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

a. Information on basic physical and chemical properties

Appearance : solid

Colour : colourless, light yellow-brown

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : 60 - 70 °C

Initial boiling point and boiling range : No data available

Flash point : > 200 °C

Evaporation rate : Not applicable

Flammability (solid, gas) : Not classified as a flammability hazard

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Solubility(ies) : insoluble

Water solubility

Solubility in other solvents : insoluble
Solvent: Methanol
soluble
Solvent: Xylene

	soluble
	Solvent: Benzene
	soluble
	Solvent: Chloroform
	soluble
	Solvent: carbon tetrachloride
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
b. Other information	
Particle size	: No data available

SECTION 10: Stability and reactivity

- a. Reactivity
Not classified as a reactivity hazard.
 - b. Chemical stability
Stable under normal conditions.
 - c. Possibility of hazardous reactions
Hazardous reactions : Can react with strong oxidizing agents.
 - d. Conditions to avoid
Conditions to avoid : None known.
 - e. Incompatible materials
Materials to avoid : Oxidizing agents
 - f. Hazardous decomposition products
No hazardous decomposition products are known.
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SECTION 11: Toxicological information

- a. Information on toxicological effects
Information on likely routes of exposure : Skin contact
Ingestion
Eye contact
Acute toxicity
Not classified based on available information.
Skin corrosion/irritation
Not classified based on available information.
Serious eye damage/eye irritation
Not classified based on available information.
Respiratory or skin sensitisation
Skin sensitisation
Not classified based on available information.

Product Name: UNIFILMA HVY

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Since there is no in vivo test data, it can't be classified only using the negative result of in-vitro mutagenicity test (Salmonella typhimurium & Eschericia coli). ※ 1

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

※ 1 : Based on internal data of Chiba Flour Milling Co., Ltd. (Test results on safety conducted by Biotoxtech Co.,Ltd), the information on 'Dextrin isostearate'.

SECTION 12: Ecological information

- a. Hazards to aquatic environment- acute hazard: No data.
- b. Hazards to aquatic environment- chronic hazard: No data.

SECTION 13: Disposal considerations

- a. Waste treatment methods

Product	: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

14. Transport Information

- a. UN number
Not regulated as a dangerous good
- b. UN proper shipping name
Not regulated as a dangerous good
- c. Transport hazard class(es)
Not regulated as a dangerous good

Product Name: UNIFILMA HVY

d. Packing group

Not regulated as a dangerous good

e. Environmental hazards

Not regulated as a dangerous good

f. Special precautions for user

Not applicable

g. Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

Fire and Disaster Management Act. Article 9 paragraph 4 in JAPAN:

Designated combustible material (Combustible solids: 3,000 kg)

SECTION 16: Other Information

Reference: Internal data of Chiba Flour Milling Co., Ltd.

INCI name: Dextrin Isostearate

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.