

Storage	P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
Disposal	P501 Dispose of contents/container according to the related regulations.

C. Other hazards (according to the NFPA Rating System)

Health	1
Flammability	1
Reactivity	0

3. Composition & Information on Ingredients

Chemical Identity	Common Name	CAS No.	% Volume
PULP, CELLULOSE	BETA-AMYLOSE	65996-61-4	100

4. First Aid Measures

A. Eyes	Get medical aid immediately if discomfort or irritation persists.
B. Skin	Consult a physician immediately if you feel discomfort.
C. Inhalation	Remove patient from exposure to fresh air immediately. Administer approved oxygen supply if breathing is difficult and get medical aid immediately.
D. Ingestion	Seek immediate medical help.
E. Notes to Physicians	Have a comprehensive understanding on the chemical and treat symptomatically and supportively.

5. Firefighting Measures

A. Appropriate Extinguishing Media

To extinguish a fire caused by or related to this chemical, use alcohol-resistant foam, Carbon Dioxide (CO₂), or water spray. Use dry sand or soil to smother the fire.

B. Specific hazard arising from the chemical

Smoke (fumes) can be produced due to pyrolysis or combustion process.

C. Special Protective Equipment & Precautions for Fire-fighters

Fire-fighters should wear appropriate protective equipment. Stay a safe distance away from the fire while extinguishing. If not dangerous, remove the container from the fire. To dispose of fire water, pour it into a spacious dug lot and make sure it is not spilled or scattered outward.

6. Accidental Release Measures

A. Protective Equipment & Emergency Procedures

Give special attention to chemical materials and conditions that must be avoided.

B. Environmental Precautions

Prevent the inflow of this product to waterways, drains, basements, and confined spaces.

C. Purification / Removal Method

Dispose of the product as medical waste.

7. Handling & Storage

A. Safe handling

Follow all prevention measures on the SDS/labels. Handle and store with care.

Give special attention to chemical materials and conditions that must be avoided.

Wear personal protective equipment while handling the product.

B. Conditions for Safe Storage

Keep away from humidity.

8. Exposure control & Personal protection

A. Exposure Limits for Chemical Substances & Biological Exposure Limits N/A

B. System Design (Proper Engineering Controls) N/A

C. Personal protective equipment

Respiratory protection N/A

Eye protection N/A

Hand protection N/A

Skin & body protection N/A

9. Physical & Chemical Properties

A. Appearance

Physical state Solid (conical shape)

Color White

B. Odor N/A

C. Odor threshold value N/A

D. pH N/A

E. Melting point/Freezing point N/A

F. Initial boiling point & Boiling range N/A

G. Flash point N/A

H. Evaporation rate N/A

I. Flammability (solid, gas) N/A

J. Maximum / minimum of the flammable or explosive limits N/A

K. Vapor pressure N/A

L. Solubility N/A

M. Vapor density N/A

N. Specific Gravity 1.27-1.60

O. Partition coefficient: n-Octanol/water N/A

P. Autoignition temperature N/A

Q. Decomposition temperature 260-270 °C

R. Viscosity N/A

10. Stability & Reactivity

A. Chemical Stability & Possibility of Hazardous Reactions	N/A
B. Conditions to avoid	Moisture
C. Incompatible materials	Inflammable Materials & Reducing Materials
D. Hazardous decomposition or byproduct	Smoke (fumes) can be produced due to pyrolysis or combustion process.

11. Toxicological Information

A. Possible Routes of Exposure	N/A
B. Information on Harmful Health Effects (Symptoms related to the physical, chemical and toxicological characteristics)	
Acute toxicity	
Oral	N/A
Dermal	N/A
Inhalation	N/A
Skin corrosion/Irritation	N/A
Serious Eyes damage/Irritation	May cause irritation to the eyes
Respiratory sensitization	N/A
Skin sensitization	N/A
Carcinogenicity	
Korean Industrial Safety and Health Act	N/A
Notification of the Ministry of Employment and Labor	N/A
IARC	N/A
OSHA	N/A
ACGIH	N/A
NTP	N/A
EU CLP	N/A
Germ cell mutagenicity	N/A
Reproductive Toxicity	N/A
Target Organ Toxicity (Single Exposure)	Inhalation causes respiratory tract irritation
Target Organ Toxicity (Repeated Exposure)	N/A
Aspiration (Inadvertent Suction) Toxicity	N/A

12. Ecological information

A. Ecotoxicity	
Fish	N/A
Shellfish	N/A
Birds	N/A
B. Persistence & Degradability	
Persistence	N/A
Degradability	N/A
C. Bioaccumulative potential	
Accumulation	N/A
Biodegradability	N/A
D. Mobility in soil	N/A
E. Other adverse effects	N/A

13. Disposal Considerations

A. Product Disposal

If stated in the Wastes Control Act, dispose of the contents and container accordingly.

B. Precautions for Disposal

Dispose of the content according to the related regulations.

14. Transport Information

A. UN Number

Classification information on transportation of hazardous materials not available

B. Proper shipping name

N/A

C. Hazard class

N/A

D. Packing Group

N/A

E. Marine pollutant

N/A

F. Any special precautions which an user should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises (Special precautions which a user needs to be aware of or needs to comply outside their premises with in connection with transport or conveyance either within or outside their premises)

Emergency procedures in case of fire

N/A

Emergency procedures in case of spill/leak

N/A

15. Regulatory Information

A. Regulations according to the Korean Industrial Safety and Health Act / Industrial Safety and Health Act

N/A

B. Regulations according to the Toxic Chemicals Control Act

N/A

C. Regulations according to the Safety Control of Dangerous Substances Act

N/A

D. Regulations according to the Wastes Control Act

N/A

E. Other regulations according to domestic and foreign laws

- Follow the regulations of the KFDA (Korea Food & Drug Administration).

- Follow the regulations of the Directive 93/42/EEC and 2007/42/EC.

16. Other Information (Other information including information on preparation and revision of the SDS)

A. Source of Data

International Uniform Chemical Information Database (IUCLID)
(<http://ecb.jrc.it/esis>) (Appearance)

Corporate Solution From Thomson Micromedex
(<http://csi.micromedex.com>) (M. Specific Gravity)

B. Created date

06 / 18 / 2014

C. Revision Number & Revision Date

Version Number

1

Last revised date

03 / 28 / 2017

E. Other Information

The information and recommendations are taken from sources (raw material SDS(s) and manufacturer's knowledge) believed to be accurate and reliable. It is intended to describe the product according to various safety requirements; however, the manufacturer makes no warranty with respect to the accuracy and completeness of the information or the suitability of the recommendation and assumes no liability to any user thereof.