



SAFETY DATA SHEET

2023-10-16

May be used to comply with U.S. Department of Labor
 OSHA's Hazard Communication Standard, Occupational Safety and Health Administration
 29 CFR 1910.1200. (Non-Mandatory Form)
 Standard must be consulted for specific requirements. OMB No.1218-0072

§ 1 - IDENTITY INFORMATION

Product Name (as used on label and list) : PG 511, PG 561 **CASEIN**

Manufacturer : HOLBEIN Works, Ltd.

Address : 2-2-5, Ueshio, Chuo-ku, Osaka-shi,
 OSAKA 542-0064 JAPAN

Telephone Number for information : 81-6-6191-7722

Emergency Telephone Number : 81-72-985-1222 (HOLBEIN Labo, Ltd.)

Preparer : ALAKI, Yutaka

§ 2 - HAZARD IDENTIFICATION

This product is not classified as dangerous for supply or conveyance.

This product has been analyzed for use in and around food manufacturing and found to be safe for use on non-contact surfaces.

No toxics or toxic off-gassing is present.

GHS label elements : Void

Classification : Non-regulated

Danger : Not nonflammable, not explosive, not inexplusive in special case

Hazard information : Especially none

Acute toxicity, Skin Irritation, Eye Effects, Respiratory Sensitization, Germ Cell

Mutagenicity, Carcinogenicity, Reproductive Toxicity, Ecological consideration :

N/A

§ 3 - COMPOSITION / INGREDIENTS

Substance/Mixture : Mixture of some ingredients

Components (Specific Chemical Identity, Common Name)	CAS No.
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Casein (A natural phosphorus, containing protein found in milk)	9000-71-9
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§ 4 - FIRST AID MEASURES

Eyes : In case of eye contact, rinse with plenty of water and if necessary consult an eye specialist.

Ingestion : Some persons may cause allergy. In case of swallowing, drink plenty of water and induce vomiting. Seek medical attention according to amount of product ingested.

Skin Contact : Wash with mild soap and water.

Inhalation : Not easily inhaled. Upon inhalation, medical advice is required.

§ 5 - FIRE AND EXPLOSION HAZARD DATA

Flammability : Not combustible unless at high temperature.
Flash Point : N/A
Auto-ignition Point : N/A
Combustion Products : Carbon oxides (CO, CO₂), Nitrogen oxides (NO, NO₂...),
Sulfur oxides (SO₂, SO₃...)
Extinguishing Media : Dry chemical powder

§ 6 - ACCIDENTAL RELEASE MEASURES

Use vacuum cleaner and wipe out.

§ 7 - HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing : Avoid prolonged or repeated contact with
skin and eyes. Avoid prolonged repeated breathing dust.
Do not allow product temperature to rise.
Storage Requirements : Keep from fire or flammable materials.

§ 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Especially none
Personal Protection : Avoid inhaling dust.

§ 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Off-white
Volatile : None
Odor : Like skim milk
Specific Gravity (H₂O = 1) : 1.07 (Bulk density $\approx$ 0.7)
Cracking Point : 280 °C
pH : Weak acid (Aqueous solution)
Solubility in Water : Soluble with alkali. Insoluble with alcohol and organic
solvents.

§ 10 - HAZARD INFORMATION AND STABILITY

Physical Dangers : Flammable.
Stability : Stable under normal state
Reactivity : None
Incompatibility (Materials to Avoid) : Strong oxidizers
Hazardous Decomposition or Byproducts : Carbon monoxide, Nitrogen oxide

§ 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, swallowing, Ingestion
Oral Toxicity (LD₅₀): N/A
Effects of Acute Exposure : None known
Effects of Chronic Exposure : None known
Skin irritation : None
Eye irritation : None, but hurttable
Carcinogenicity : N/A

Sensitization : It may cause allergy, because by a theory, α -casein is the cause (antigen) of allergy when some persons exhibit allergy drinking milk.

Mutagenicity, Teratogenicity, Reproductive Toxicity : No data available

§ 12 - ECOLOGICAL INFORMATION

No specific data is available for this biodegradable product.

§ 13 - DISPOSAL CONSIDERATIONS

Disposal Considerations : The product is suitable for processing at an appropriate government waste disposal facility.

§ 14 - TRANSPORT INFORMATION

Precautions for Transport : None, especially
 UN Proper Shipping Name : Not applicable
 UN Number : Not applicable
 UN Hazard Class : Not applicable
 Packing Group : Not applicable

§ 15 - REGULATORY INFORMATION

Industrial Safety and Health Law : N/A
 Fire Service Law : N/A
 National Fire Protection Association (U.S.A.):
 Health : 1
 Flammability : 1
 Reactivity : 0
 Specific hazard : -
 Pollutant Release and Transfer Register : N/A
 Conforms to ACMI under ASTM D 4236, and is classified into AP genre.
 ACMI : The Art & Creative Materials Institute, Inc.
 ASTM : ASTM International (Former "American Society for Testing and Materials")
 AP : Approved Product : Contain no materials in sufficient quantities to be toxic or injurious to humans.
 CL : Cautionary Label : Any known health risks and with information on the safe and proper use of these materials

§ 16 - OTHER INFORMATION

Notice: All information contained herein is for references and guidance for normal use, and not for all conceivable conditions of handling and use. The responsibility for irregular use belongs to user individuals. All information are under our knowledge of today, and not secure the perfection. All information may change according to circumstances.