



SAFETY DATA SHEET

U.S. Department of Labor
 May be used to comply with Occupational Safety and Health Administration OSHA's Hazard
 Communication Standard, (Non-Mandatory Form) 29 CFR 1910. 1200.
 Standard must be Form Approved 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 : 81-72-985-1221
 Date Prepared : 2015-5-29
 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 explosive
 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.
Casein (A natural phosphorus, containing protein found in milk)	9000-71-9

§ 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

Not regulated
UN Number : N/A

§ 15 - REGULATORY INFORMATION

Conforms to ACMI, Art & Creative Materials Institute, under ASTM D 4236.
 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

§ 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.