

MATERIAL SAFETY DATA SHEET

CENTRE FOR STANDARDS
ADDRESS : HARELBEKESTRAAT 72
9000 GENT
BELGIUM

SECTION I : IDENTITY

COMMON NAME	CASEIN FIP STANDARD
CHEMICAL FAMILY	phosphoproteins
ORIGIN	cow milk
CAS number	9000-71-9

SECTION II : HAZARDOUS INGREDIENTS

Repeated inhalation of dust may cause sensitization and will cause allergic type reactions in sensitized individuals

SECTION III : PHYSICAL DATA

BOILING POINT	n/a
SPECIFIC GRAVITY (H ₂ O = 1)	n/a
VAPOR PRESSURE (mm Hg)	n/a
PERCENT VOLATILE BY VOLUME (%)	n/a
VAPOR DENSITY (AIR = 1)	n/a
EVAPORATION RATE	n/a
SOLUBILITY	not soluble
WATER CONTENT	3.9 %
MELTONG POINT	280° C
INCOMPATIBILITIES	strong oxidising agents, moisture
REACTIVITY IN WATER	n/a
APPEARANCE AND COLOUR	pale-yellow powder
FLASH POINT	n/a
FLAMMABLE LIMITS	LOWER n/a UPPER n/a
EXTINGUISHER MEDIA	water, foam, carbon dioxide, dry chemical powder
AUTO-IGNITION TEMPERATURE	n/a

n/a not applicable

SECTION IV : FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	n/a
EXTINGUISHING MEDIA	water, foam and halones
SPECIAL FIRE FIGHTING PROCEDURES	As with all fires, evacuate personnel to safe area Fire-fighters should use self-contained breathing equipment and protective clothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS	This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential build-up of static electricity.
FLAMMABLE LIMITS	LOWER n/a UPPER n/a
STABILITY	() Unstable (x) Stable
CONDITIONS TO AVOID	Material is stable from a safety point of view.
HAZARDOUS DECOMPOSITION PRODUCTS	none
HAZARDOUS POLYMERIZATION	() May Occur (x) Will Not Occur

SECTION V : HEALTH HAZARD DATA

TRESHOLD LIMIT VALUE	None established
EFFECTS OF OVEREXPOSURE	LD ₅₀ (oral, rat) > 2000 mg/kg Possible allergic reaction to dust if inhaled, ingested or in contact with skin. Can cause allergic skin reaction, and allergic respiratory reaction.
ACUTE	Eye, skin and/or respiratory tract irritation
CHRONIC	Possible hyper sensitization
PRECAUTIONS TO CONSIDER	Persons developing hypersensitivity (anaphylactic) reactions must receive immediate medical attention. Avoid prolonged or repeated contact with skin. Material may be irritating to mucous membranes and respiratory tract. As a general rule, when handling FIP Reference Standards avoid all contact and inhalation of dust, fumes, mist, and/or vapours associated with the material. Keep container tightly closed and use with adequate ventilation; wash thoroughly after handling. Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterized or unknown.

MEDICAL CONDITIONS

Hypersensitivity to material. Dermatologic problems.

EMERGENCY AND FIRST AID PROCEDURES

Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity reactions must receive immediate medical attention. Upon eye or skin contact, flush affected area with copious quantities of water. Use general supportive measures. Obtain medical attention. If not breathing give artificial respiration. If breathing is difficult give oxygen.

1. INHALATION	May cause irritation of respiratory tract. Avoid inhalation. Remove to fresh air. If irritation occurs consult a doctor.
2. EYES	May cause irritation. Flush with copious quantities of water (at least 15 minutes)
3. SKIN	May cause irritation. Flush with copious quantities of water.
4. INGESTION	May cause irritation. Flush out mouth with water. If irritation occurs, seek medical advice.

In any case seek medical advice and call the nearest poison centre.

SECTION VI : SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	Anti-dust mask
VENTILATION	Adequate
LOCAL EXHAUST	Recommended
MECHANICAL (GENERAL)	Recommended
OTHER	n/a
PROTECTIVE GLOVES	Impervious/chemically compatible
EYE PROTECTION	Safety goggles
OTHER PROTECTIVE CLOTHING OR EQUIPMENT	Protect exposed skin, appropriate laboratory apparel

SECTION VII : SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN handled	Store in tight container. This material should be
IN HANDLING AND STORAGE	and stored per label and other instructions to ensure product integrity.
OTHER PRECAUTIONS	Avoid contact with eyes, skin or clothing. Avoid breathing dust or mist. Use with adequate dust control. Wash thoroughly after handling. Wear fresh clothing daily. Wash contaminated clothing before reuse. Do not permit eating, drinking or smoking near material.
STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR Place RELEASED	Wear approved respirator and chemically compatible gloves. Vacuum or sweep up spillage. Avoid dust. spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse. Ventilate area and wash spill site.
WASTE DISPOSAL METHOD	Dispose of waste in accordance with all applicable Federal, State and local laws.

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