

MATERIAL SAFETY DATA SHEET

CENTRE FOR STANDARDS ADDRESS : HARELBEKESTRAAT 72 9000 GENT BELGIUM
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SECTION I : IDENTITY

COMMON NAME	STARCH FIP STANDARD
FORMULA	$(C_6H_{10}O_5)_n$
CAS number	9005-84-9

SECTION II : HAZARDS IDENTIFICATION

May be harmful by inhalation, ingestion or skin absorption. May cause eye and skin irritations. Dust may be an allergen and a mild irritant. The chemical, physical and toxicological properties have not been thoroughly investigated.

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
MELTING POINT	256-258° C
SOLUBILITY	practically insoluble in cold water and alcohol
pH	6.8 (2% solution)
LOSS ON DRYING	4.48 % (2h, 105° C)
SULPHATED ASH	0.22 %
INCOMPATIBILITIES	strong oxidising agents
REACTIVITY IN WATER	n/a
APPEARANCE AND COLOUR	white powder
FLASH POINT	n/a
FLAMMABLE LIMITS	LOWER n/a UPPER n/a
EXTINGUISHER MEDIA	water spray, carbon dioxide, dry chemical powder or appropriate foam
AUTO-IGNITION TEMPERATURE	n/a

n/a = not applicable

SECTION V : HEALTH HAZARD DATA

TRESHOLD LIMIT VALUE	None established
EFFECTS OF OVEREXPOSURE	LD ₅₀ (oral, mouse) > 6600 mg/kg Possible allergic reaction to dust if inhaled, ingested or in contact with skin. Can cause allergic skin reaction, and allergic respiratory reaction. Eye, skin and/or respiratory tract irritation
ACUTE	Possible hyper sensitization
CHRONIC	Persons developing hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
PRECAUTIONS TO CONSIDER	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. Hypersensitivity to material. Dermatologic problems.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	
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 IN HANDLING AND STORAGE	Store in tight container. This material should be handled 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 RELEASED	Wear approved respirator and chemically compatible gloves. Vacuum or sweep up spillage. Avoid dust. Place 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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