



MATERIAL SAFETY DATA SHEET
MONOFOS®

2345 WAUKEGAN ROAD, SUITE E-200
BANNOCKBURN, ILLINOIS 60015-5516
847-607-3290

SECTION I. PRODUCT INFORMATION

PRODUCT NAME:	MONOFOS®	CAS NO.:	7722-76-1
CHEMICAL FAMILY:	Inorganic Salt	MOLECULAR WEIGHT:	115
CHEMICAL NAME:	Monoammonium Phosphate	FORMULA:	(NH ₄)H ₂ PO ₄
DOT CLASS:	Not Regulated by DOT		

SECTION II. COMPOSITION

Monofos® is not classified as a hazardous material by the criteria of the OSHA Hazard Communication Standard, 29 CFR Part 1910, .1910.1200, "Hazard Communication".

SECTION III. PHYSICAL DATA

MELTING POINT:	300° F (Decomposes)	DENSITY:	1.8
VAPOR PRESSURE (mm Hg):	Not Applicable	PERCENT VOLATILE:	None
SOLUBILITY IN WATER:	Appreciable	pH, 1% Solution:	6.0
APPEARANCE AND ODOR:	Odorless gray granules		

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not Applicable	FLAMMABLE LIMITS:	Not Applicable
EXTINGUISHING MEDIA:	Not Applicable		

MONOFOS® is a non-flammable inorganic salt. It is used as a fire retardant, since dehydration to the meta form above 300 °F in the presence of water or steam absorbs heat and cools the fire. When heated to temperatures above 300 °F it may release small amounts of toxic and/or irritating ammonia and fluorides.

SECTION V. REACTIVITY DATA

STABILITY:	MONOFOS® is stable under all normal conditions.
INCOMPATIBILITY (materials to avoid):	Alkalis, heat. Alkalis will cause release of ammonia.
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION VI. HEALTH HAZARD DATA

Permissible Exposure Limit - None established. We suggest the OSHA nuisance dust limit of 15 milligrams per cubic meter as total dust.

ACGIH TLV: None Listed
ROUTES OF ENTRY: Lungs (breathing), ingestion (swallowing)
TOXICITY DATA: None found

EFFECTS OF OVEREXPOSURE:

SHORT TERM: May cause slight irritation of the skin, eyes, nose or throat.
LONG TERM: As with any inorganic dust, long-term inhalation of dust concentrations higher than recommended Permissible Exposure Limits may cause delayed lung injury. However, Monofos® is more than 85% water soluble, and is not likely to accumulate in the lungs.
FIRST AID: **EYES** - Flush thoroughly with water. See a physician if irritation persists.
SKIN - Wash with water

SECTION VII. SPILL, LEAK AND DISPOSAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.

WASTE DISPOSAL METHOD: Uncontaminated material can generally be disposed of in an approved land disposal facility, in accordance with applicable federal, state and local regulations. Depending upon type and extent of contamination, if any, other disposal methods may be required by environmental regulatory agencies.

SECTION VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If dust concentrations exceed recommended Permissible Exposure Limits, use NIOSH-approved dust respirators, with approval TC-21C-xxx, until feasible engineering controls are completed.

VENTILATION: Local exhaust or other ventilation that will reduce dust concentrations to less than Permissible Exposure Limits is recommended.

EYE PROTECTION: If high dust concentrations exist, tight-fitting goggles are recommended to reduce dust exposure to the eyes.

OTHER PROTECTIVE EQUIPMENT: Optional.

SECTION IX. SPECIAL PRECAUTIONS

No unusual precautions necessary