



MATERIAL SAFETY DATA SHEET (MSDS)

Section 1. Product and Company Identification

Product Name: **FRX 100 Homopolymer**
CAS #: 68664-06-2
Chemical Family: Thermoplastic Polymer
Chemical Name: Polyphosphonate
Manufacturer: FRX Polymers
200 Turnpike Road
Chelmsford, MA 01824
FRX Information Telephone: 978-244-9500
978-250-4533 (Fax)
Emergency Telephone: 800-424-9300 (CHEMTREC)

Section 2. Hazards Identification

Emergency Overview:

- Caution: Color: yellow/clear; Form: solid pellets; Odor: slight.
- Contact with hot material will cause burns.
- Irritating gases/fumes may be given off during thermal decomposition.
- Causes a slipping hazard when spilled.

Hazardous Materials Label Rating

Health	0
Flammability	0
Physical Hazard	0

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe
*=Chronic Health Hazard

Primary Routes of entry:

Inhalation (Acute) Inhalation, Skin Contact, Eye Contact
Gases and fumes evolved during the thermal processing or decomposition may irritate the respiratory tract

Skin Contact (Acute) No absorption hazard when used normally
Contact with heated material may cause thermal burns

Eye Contact (Acute) Contact with dust may cause mechanical irritation

Chronic Effects of Exposure No adverse chronic health effects expected

Carcinogenicity No substances contained, as defined by IARC, NTP and/or OSHA

Section 3. Composition / Information on Ingredients

Hazardous Components This material does not contain hazardous materials according to 29CFR1910.1200 (OSHA Hazard Communication Standard)

Section 4. First Aid Measures

Inhalation	During heating, irritation may be caused by processing fumes and/or gases. If irritation develops, remove to fresh air. If irritation persists, seek medical attention.
Eye Contact	Flush eyes with tepid water for at least 15 minutes. If irritation persists, seek medical attention
Skin Contact	Wash with soap and water. If irritation persists, seek medical attention. Seek medical attention immediately for thermal burns

Section 5. Fire Fighting Measures

Extinguishing Media:	Water spray, foam, dry chemical, carbon dioxide.
Special Fire Fighting Procedures:	Full protective equipment, including self-contained breathing apparatus (SCBA) must be worn when entering the fire area.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, and phosphoric acid vapors are evolved during thermal decomposition

Section 6. Accidental Release Measures

Contain spills of molten material. If molten, allow to cool and solidify, and store in a marked, closed container pending a waste disposal evaluation.

Section 7. Handling and Storage

Storage	Store in a cool dry place.
Handling	Handle in accordance with good safety and industrial hygiene practices. Avoid breathing dust. Wash thoroughly after handling.

Section 8. Exposure Control and Personal Protection

Exposure limits have not been established for this material or are not applicable

Engineering Controls / Ventilation	General dilution with fresh air is recommended. Local exhaust is recommended to limit exposure to excessive dust and thermal decomposition products.
Respiratory Protection	If airborne dust persists, wear a NIOSH-approved respirator. If using product at high temperature, choose respiratory protection based on an evaluation of airborne elements of thermal decomposition.
Skin Protection	When handling molten material, wear heat-resistant gloves.
Eye Protection	During normal handling, wear safety glasses with side-shields or chemical goggles. When handling molten material, wear face



shield with chemical-resistant goggles

After Use

Wash hands with soap and water after use. Wash hands before eating or drinking.

Section 9. – Physical and Chemical Properties

Physical State	Solid
Appearance	Pellets
Color	Yellow / Clear
pH	Not Applicable (NA)
Flash Point	> 450 ° C
Melting Point	220 – 250 ° C
Softening Point	90 ° C
Boiling Point, at 760 mm	NA
Solubility In Water	Insoluble
Vapor Pressure, at 75 degrees F.	Not determined

Section 10. Stability and Reactivity

Stability	Stable, will not burn
Reactivity	Not reactive under recommended conditions of handling, storage, processing, and use
Incompatibilities:	None known
Hazardous Decomposition Products	By fire and thermal decomposition: carbon dioxide (CO ₂), carbon monoxide (CO), and phosphoric acid vapors.

Section 11. Toxicological Information

No Information Available

Section 12. Ecological Information

No Information Available

Section 13. Disposal Information

Dispose of waste material in accordance with federal, state and local regulations.

Section 14. Transport Information

Land Transport (DOT)	Not Regulated
Sea Transport (IMDG)	Not Regulated
Air Transport (ICAO / IATA)	Not Regulated

Section 15. Regulatory Information

OSHA Hazard Communication Standard	Non-Hazardous
U.S. CERCLA (EPA) 40 CFR302)	No Components
SARA sections: 311,312,313	No Components



Section 16. Contact Information

Contact Information: FRX Product Safety
Department

Telephone: 978-244-9500

MSDS Number: FRX 100
Homopolymer

Revision Date: 10/2/2009

Revision: 2.1

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