



**Expect Service**

**Radiation Products Design Inc**

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## SAFETY DATA SHEET

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### RPD INFORMATION

**Address** 5218 Barthel Industrial Drive  
Albertville, MN 55301

**Website** [www.rpdinc.com](http://www.rpdinc.com)

**Email** [sales@rpdinc.com](mailto:sales@rpdinc.com)

**Phone** 800-497-2071

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### RPD PRODUCT INFORMATION

**RPD is an authorized distributor**

For all Aquaplast RT™ Thermoplastic (Sheets, Tubes and Pellets)



## SECTION 1. IDENTIFICATION

**Product Name** (TC7001 Series and TC-7003 Series) Aquaplast RT™ Thermoplastic (Sheets, Tubes and Pellets)

**Product Code** Not available

**Recommended use of the chemical and restrictions on use**

Intended Use: Various applications, can contact skin

Uses advised against: Do not ingest

**Manufacturer or supplier's details**

Company name of supplier : Qfix

Address : 440 Church Road  
Avondale, Pennsylvania 19311

Telephone : (610)-268-0585

Emergency telephone : (610)-268-0585

## SECTION 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is not classified according to the Globally Harmonized System (GHS).

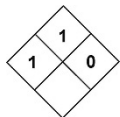
**Label Elements**

**Hazard Pictograms** Not Applicable

**Signal Word** Not Applicable

**Hazard Statements** Not Applicable

**NFPA Ratings**



Health = 1

Fire = 1

Reactivity = 0

**HMIS Ratings**

HEALTH	0
FIRE	0
REACTIVITY	0

Health = 1

Fire = 1

Reactivity = 0



## EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** White to ivory sheet or pellet

**IMMEDIATE CONCERNS:** Burning gives off toxic fumes. Slippery especially when wet. Dusts from grinding operations may aggravate existing lung disorders when proper protection is not used.

**OSHA Hazard Communication Standard:** Aquaplast RT™ Thermoplastics are fully reacted polymers forming articles which are not considered “Hazardous” under normal use as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200. However, hazardous dusts, vapors, gases and fumes may be released by mechanical or thermal processing by thermal decomposition.

### Other Hazards

Caution- substance not yet fully tested

Due to the structure of the substance and studies made on similar products we assume that the product is unclassified.

Decomposition gasses when burned may be irritating to the eyes and skin.

Note the risk of burn injuries if the product is handled heated.

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## SECTION 3. COMPOSITION INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	2-Oxepanone, polymer with 1,4-butanediol
<b>Synonyms</b>	Caprolactone, 1,4-butanediol polymer epsilon-Caprolactone, 1,4-butanediol polyester

Components	Formula	CAS No.	Percent
2-Oxepanone, polymer with 1,4-butanediol	(C <sub>6</sub> H <sub>10</sub> O <sub>2</sub> (C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> ) <sub>x</sub>	31831-53-5	>99

**COMMENTS:** Product composition ranges shown are typical values for health, safety and environmental use and are not intended as specifications.

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## SECTION 4. FIRST-AID MEASURES: If dust from mechanical or thermal processes

Eyes:	Hold eyelids open and flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms develop.
Skin:	Remove contaminated clothing. Wash skin with soap and water. Get medical attention if symptoms develop. Molten Aquaplast RT™ Thermoplastic can burn skin.
Ingestion:	Wash out mouth with water and keep at rest. Seek immediate medical attention.
Inhalation:	Remove from further exposure. If respiratory symptoms develop, seek medical attention.

## POTENTIAL HEALTH EFFECTS

**EYES:** Not affected during normal use.

**SKIN:** Not affected during normal use. Molten Aquaplast RT™ Thermoplastic can burn skin.



**INGESTION:** Not affected during normal use.

**INHALATION:** Not affected during normal use. Inhalation of dust and/or vapors during machining or thermal processes can be irritating and lead to respiratory concerns. Fumes created through thermal processes will produce carbon monoxide and carbon dioxide.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Not affected during normal use.

**SKIN:** Not affected during normal use.

**INGESTION:** Not affected during normal use.

**INHALATION:** Not affected during normal use. Use NIOSHA approved respirator for any grinding, cutting or burning operation. For grinding wear a dust respirator. If generating gas by mechanical or thermal processing, wear an air-purifying respirator with organic cartridge or supplied-air respirator if ventilation is inadequate.

**ACUTE TOXICITY:** No test data is available for acute dermal toxicity. Not expected to cause significant adverse effects if ingested. No test data is available for acute inhalation toxicity.

**CHRONIC TOXICITY:** Animal studies indicate that chronic inhalation or overexposure of dust may cause inflammation of the lungs, fibrosis and airway destruction.

**CARCINOGENICITY:** Not listed by NTP, IARC or OSHA.

**MUTAGENICITY:** No test data is available.

#### **REPRODUCTIVE TOXIN**

**REPRODUCTIVE EFFECTS:** Not available

**TERATOGENIC EFFECTS:** Not available

**MEDICAL CONDITIONS AGGRAVATED:** None known under normal use.

**TARGET ORGAN STATEMENT:** None known under normal use.

**HAZARDS NOT OTHERWISE CLASSIFIED:** Decomposition gasses when burned may be irritating to the eyes and skin

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## **SECTION 5. FIRE-FIGHTING MEASURES**

Flash Point	Cleveland Open Cup / ASTM D92 527 °F (275 °C)
Flammability	No data
Auto – Flammability	No data
Danger of Explosion	Non-explosive
Oxidizing Properties	Non-oxidizer
Suitable extinguishing methods	Water, water spray Foam CO <sub>2</sub>
Unsuitable extinguishing methods	No restrictions



Protective measures  
in case of intervention

Evacuate all non-essential personnel  
Intervention only by capable personnel who are trained and aware of the hazards of the product.  
Wear self-contained breathing apparatus when in close proximity or in confined spaces.

Other precautions

If safe to do so, remove exposed Fibreplast or cool with large quantities of water.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Precautions:

Not applicable

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## SECTION 7. HANDLING AND STORAGE

Handling:

Use appropriate personal protective equipment as specified in Section 8. Handle and use in a manner consistent with good industrial techniques and practices.

Storage:

Keep in original packaging in a cool dry location, away from exposure to direct sunlight.

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## SECTION 8. EXPOSURE CONTROLS

**ENGINEERING CONTROLS:** If dust is generated, provide local exhaust ventilation to control airborne levels below the ACGIH TLV-TWA exposure limit for Particulates Not Otherwise Classified of 10 mg/m<sup>3</sup> for inhalable particles and 3 mg/m<sup>3</sup> for respirable.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYES AND FACE:** None required during intended use.

**SKIN:** Not hazardous. Large pieces may require hand and arm protection. Use of gloves may be necessary to prevent cuts to arms or hands when handling large sheets.

**RESPIRATORY:** If airborne dust is present and exposure limits for Particulates Not Otherwise Classified cannot be maintained via appropriate engineering controls, use a NIOSH approved particulate respirator.

**COMMENTS:** No PEL's TLV's or OEL's for this product are listed in the current issue of ACGIH's Guide to Occupational Exposure Values nor have they been determined by the manufacturer.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



Physical State:	Solid
Appearance:	White to ivory sheet, pellet, or tube
Odor:	Odorless
PH:	Not applicable
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Boiling Point:	Not determined
Freezing Point:	Not determined
Melting Point:	Not determined
Solubility in water:	Insoluble
Viscosity:	Not determined
Flash Point:	Not determined
Flammable Exposure Limits:	Not determined
Evaporation Rate:	Not determined
Specific Gravity:	1.1 at 140°F (60°C)

Dust from processing operations may be combustible.

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## **SECTION 10. STABILITY AND REACTIVITY**

Stable: Yes

Hazardous Polymerization: No

Conditions to avoid: High temperature and humidity

Stability: This product is stable under normal ambient conditions of temperature and pressure.

Polymerization: Will not occur

Hazardous decomposition Products: Carbon monoxide and carbon dioxide when burned

Incompatible materials: Acids and alkali

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Under normal conditions not applicable.

### **ACUTE**

Eye effects:	No data
Skin effects:	No data
Acute oral effects:	No data
Acute inhalation effects:	No data

Eye Effects: Does not affect the eyes under normal use. For mechanical processes that produce dust, use approved safety glasses.

Skin Effects: Does not affect the skin under normal use. Molten Aquaplast RT™ Thermoplastic can burn skin.

Sensitization: Not available

Target Organs: Does not target organs under normal conditions.

Carcinogenicity:



IARC- Not listed  
NTP- Not listed  
OSHA- Not listed

Mutagenicity: Not available  
Reproductive effects: Not Available

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## **SECTION 12. ECOLOGICAL INFORMATION**

Acute ecotoxicity:	No data
Chronic ecotoxicity:	No data
Abiotic degradation:	No data
Potential for bioaccumulation:	No data

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## **SECTION 13. DISPOSAL CONSIDERATION**

Waste disposal method: Aquaplast RT™ is not considered hazardous waste under Federal Hazardous Waste Regulations (40CFR 26 I). Please be advised, however, that federal laws may change and that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult current federal, state and local regulations regarding the proper disposal of this material and its empty containers.

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## **SECTION 14. TRANSPORTATION INFORMATION**

D.O.T. Proper Shipping Name:	Not regulated
UN Number	Not applicable
Hazard Class:	Not applicable
Label(s):	Not applicable
Packing group:	Not applicable

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## **SECTION 15. REGULATORY INFORMATION**

TSCA Inventory List:	No
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CERCLA Hazardous Substance (40 CFR Part 302)	
Listed substance	No
Unlisted substance	No

SARA, Title M, Sections 302/303  
(40 CFR Part 370 - Hazardous Chemical Reporting: Community Right-To-Know)



Hazard category:	None
Threshold planning quantity	None
VVHMS Classification:	Not a controlled product
Canadian Domestic Substances List:	No

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## SECTION 16. OTHER INFORMATION

This information is provided in good faith and is correct to the best of Qfix's knowledge as of the date hereof and is designed to assist our customers; however Qfix makes no representation as to its completion or accuracy. We require customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications. Any use which Qfix customers or third parties make of this information, or any reliance on, or decisions made based upon it, are the responsibility of such customer or third party. Qfix disclaims responsibility for damages, or liability, of any kind resulting from the use of this information. There are no warranties or representations, express or implied, including those of merchantability or fitness for a particular purpose with respect to this information or the product it describes. In no event shall Qfix be liable for special, incidental, or consequential damages.