

MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT & COMPANY IDENTIFICATION

Product Name: RMC-0331
Molecular Weight: 499.91
Catalog#: RMC0331
Physical Form: Powder
Supplier Name: Biofargo Inc.

SECTION 2:

COMPOSITION/INFORMATION OF INGREDIENTS

Ingredient	Assay (%)	OEL
RMC-0331	>98	Not established

SECTION 3: HAZARDS IDENTIFICATION

A) EMERGENCY OVERVIEW:

This substance is a novel research compound. The physical, chemical, and toxicological properties have not been thoroughly investigated. Exposure by any route should be minimized.

B) SUMMARY OF POTENTIAL HEALTH EFFECTS:

Inhalation: Not determined, assumed to be similar to the effects, which may be produced following ingestion.

Ingestion: Not determined.

Eye: Not determined, not expected to be eye-irritating. Avoid contacting the eyes.

Skin: Not determined.

SECTION 4: FIRST AID MEASURES

Eyes: Flush with water for at least 15 minutes. Seek medical attention immediately if irritation develops.

Skin: Flush area with large amounts of water for 15 minutes. Remove contaminated clothing. Use soap if available. Seek medical attention immediately if skin irritation or rash develops.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention immediately.

Ingestion: Seek medical attention immediately. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

Note to physician: None

SECTION 5: PROPERTIES FIRE AND EXPLOSION

General: This compound is expected to be combustible like many other organic molecules.

DSC Results: Not determined

A) FIRE FIGHTING PROCEDURES:

Instructions: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to keep fire-exposed containers cool.

Hazardous: May include oxides of carbon and nitrogen.

Combustion Products:

Extinguisher to use: Use appropriate media including water.

B) DUST EXPLOSION CHARACTERISTICS:

Not determined

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Response Instructions: Use of a filtered vacuum to clean spills of dry solids is not advised, due to the potential for electrostatic discharge and the high dust explosion potential. Report emergency situations immediately. Non-essential personnel should be evacuated from the affected area. Contain the source of the spill if it is safe to do so. Spills should be cleaned up in a manner that minimizes exposure to personnel. Personnel involved in clean-up of spills should wear respiratory protection, gloves, eye protection, and protective coveralls. Wet the material with water and collect solution/slurry for disposal. Clean spill area thoroughly. Collect wash with absorbent material and transfer all waste to a labeled container for disposal.

SECTION 7: HANDLING AND STORAGE

General handling: All conductive elements of the system that contact the dry substance should be properly bonded and grounded and equipped with proper explosion relief or suppression systems. This material should not be flowed through non-conductive ducts or pipes because of the potential for electro static discharge ignition. Restricting the use of high resistivity materials, such as plastics, should be considered. Use appropriate PPE including respiratory protection when working outside of a closed system.

Storage: RMC-0331 should be stored in closed containers away from light, ignition sources including electrostatic charge, heat, sparks, and flame.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit: Not determined

Ventilation: Use of laboratory fume hood or local exhaust ventilation.

Personal Protective Equipment: Eye protection, gloves, and coveralls should be worn. In addition, respiratory protection should be used when working with this substance outside of the hood, ventilated enclosure, or closed system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Powder

Molecular Weight: 499.91

Molecular Formula: C₂₂H₂₅ClF₃N₅O₃

Solubility: Not determined

Additional: The characteristics of this compound have not been fully determined.

Information/Comments:

SECTION 10: STABILITY AND REACTIVITY

Reactivity: The reactivity properties of RMC-0331 have not been investigated.

Incompatibility: Not fully determined. Incompatible with electro static discharge in situations where a dust cloud may be produced. As a precautionary measure, keep away from heat sources and strong oxidizers.

SECTION 11: TOXICOLOGY INFORMATION

Acute Exposure: Not determined

Minimum Lethal Dose: Not determined

Eye Effects: Not expected to be eye-irritating.

Skin Effects: Not determined

Reproductive Effects: Not determined

Developmental Effects: Not determined

Carcinogenicity: Not determined, not expected to be carcinogen

Genotoxicity: Not determined.

Sensitization Potential: Not determined

Additional Data:

SECTION 12: ECOLOGICAL INFORMATION

Ecological Info: Surrogate Species(EC/LC - 50)

Daphnia IQ (mg/1)

>1.0

NPDES Permit Species (LC - 50)

Mysid Shrimp (mg/L) :

>5.0

Sheepshead Minnow (mg/L):

>5.0

Red Algae (mg/L):

>5.0

Oyster Embryo (mg/L):

WWTP Inhibition

POLYTOX @ WWTP (MIC)(mg/L) 5

POLYTOX @ WWTP(IC - 50) (mg/L) >5.0

SECTION 13: DISPOSAL INFORMATION

Disposal procedure: Small quantities of this compound may be disposed of in a routine fashion. Collected materials should be placed in a closed container and may be disposed of as

non-hazardous waste(preferably by incineration) or returned to Biofargo Inc. for disposal. Use, processing, alteration, or contamination, as well as state, local, or site restrictions may affect these disposal recommendations.

SECTION 14 : TRANSPORTATION INFORMATION

Transportation Info: Proper shipping name: Not regulated.

SECTION 15: REGULATORY INFORMATION

EU Risk Phrases: Caution: material not yet fully tested.

S22 Avoid breathing

dust Xn Harmful

R22 Harmful if

swallowed R2 Risk of explosion by shock, friction, fire or other sources of ignition. R51 Toxic to aquatic organisms.

SECTION 16 : OTHER

Disclaimer:

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