



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Identifier
Trade Name: HF5000

Recommended Use of the Chemical and Restrictions on Use
Product Use:
Uses Advised Against: None identified

Manufacturer/Supplier: Rantec Corporation
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SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:
Combustible Dust
Respiratory Sensitizer Category 1

Label Elements:
Danger!



May form combustible dust concentrations in air.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Avoid breathing dust or fume.
In case of inadequate ventilation, wear respiratory protection.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
Dispose of contents in accordance with local, regional and national regulations.

Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	%
Proprietary Polymer Blend	Proprietary	Proprietary

The exact concentration is being withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

Eye: Flush thoroughly with water. If irritation persists get medical attention.

Skin: No first aid should normally be needed. Wash exposed skin with soap and water after use. If irritation or rash develops, get medical attention. Use skin lotion if dryness occurs.

Inhalation: If symptoms of irritation or allergy develop, remove person from source of exposure to fresh air. Get immediate medical attention if asthmatic symptoms develop.

Ingestion: DO NOT INGEST. While this product is not toxic by ingestion, swallowing small amounts could cause complete blockage of the mouth, pharynx, trachea, esophagus and/or gastrointestinal system which may cause choking, suffocation and/or other life threatening medical conditions. Get medical attention immediately.

Most Important symptoms and effects, both acute and delayed:

May cause mechanical eye and skin irritation. Inhalation of dust may cause nose and throat irritation, coughing and sneezing. Inhalation may cause sensitization and difficulty breathing in individuals who are allergic to grain dust. Ingestion may cause gastric upset and nausea.

Indication of any immediate medical attention and special treatment needed: If inhaled and causes allergic reaction, seek prompt medical attention. Seek immediate medical attention if any amount is ingested.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media:

Use water fog, dry chemical, carbon dioxide or foam. Do not use solid water jet as that may create a dust cloud that can present an explosion hazard.

Specific Hazards Arising from the Chemical

High concentrations of dust suspended in air may present a potential explosion hazard. Settled dust presents a fire hazard. Re-suspension of the dust into the air by vibration, traffic, material handling, etc. in high concentrations in the presence of an ignition source could result in a dust explosion. Minimize the generation and accumulation of dust. Slip hazard: product is very slippery when wet.

Hazardous Decomposition Products: Combustion may produce oxides of carbon.

Special Protective Equipment and Precautions for Fire-Fighters:

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective equipment. Avoid creating and breathing dust. Eliminate ignition sources.

Environmental Precautions:

Avoid unintentional release to the environment.

Methods and Material for Containment and Cleaning Up:

Do not use water or water based solvents. Collect dry and in a manner to minimize the generation of airborne dust or vacuum with a high vacuum cleaner. If a vacuum is used, explosion proof equipment is required. Non-sparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air.)

Reference to Other Sections:

Refer to Section 8 for protective equipment. Refer to Section 13 for disposal guidance.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Avoid contact with eyes and clothing. Avoid creating and breathing dusts. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Minimize the generation and accumulation of dust. Keep dust away from open flames, hot surfaces and sources of ignition. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Empty containers retain product residues. Follow all SDS precautions in handling empty containers.

Conditions for Safe Storage, Including any Incompatibilities

Store in a cool dry place. Protect from moisture, excessive heat and damage. Keep containers closed to avoid moisture pickup. Properly cover and retest after extended storage to assure quality prior to use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Exposure Limits
Proprietary Polymer Blend (as PNOR)	5 mg/m ³ TWA OSHA PEL (respirable), 15 mg/m ³ TWA (total dust)

Note: The OSHA limits may not adequately protect workers from respiratory sensitization. Exposure levels should be maintained as low as possible for the workers' protection.

Refer to local regulations for specific requirements.

Exposure Controls:

Engineering Controls: Use explosion proof local exhaust ventilation as needed to maintain exposure concentrations below the recommended limits.

Eye and Face: Follow facility requirements. Dust goggles recommended for dusty conditions.

Skin: None required. Work gloves may be used to protect against mechanical irritation.

Respiratory: If the concentrations exceed the Threshold Value Limit (TLV), a NIOSH approved dust respirator, supplied air respirator or self-contained breathing apparatus is recommended. Select appropriate respiratory protection for respirable particulates based on consideration of the airborne workplace concentrations and duration of exposure. Select and use respirators in accordance with 29 CFR 1910.134, ANSI Z88.2, the NIOSH Respirator Decision Logic and good industrial hygiene practice.

Protective Clothing: Appropriate protective clothing as needed to minimize skin contact.

Work Hygienic Practices: Wash thoroughly after handling. .

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid	Appearance: Beige to brown powder
Odor: Slight odor	Odor Threshold: Not applicable
pH: Not applicable	Relative Density: No Data Available
Boiling Point: Not applicable	Melting Point: Decomposes
Vapor Pressure: Not applicable	Water Solubility: No Data Available
Vapor Density: Not applicable	Evaporation Rate: Not applicable
Viscosity: Not applicable	Pour Point: Not applicable
Flash Point: Not applicable	Flammable Limits: LEL: Not applicable
Autoignition Temperature: None	Flammable Limits: UEL: Not applicable
Percent Volatile: Not applicable	Flammability (solid/gas): Not applicable
Partition Coefficient: n-octanol/water: Not applicable	Decomposition Temperature: None
Explosive Properties: None	Oxidizing Properties: None

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Stable for 5 years.

Possibility of Hazardous Reactions: Reactions with strong oxidizers may generate heat.

Conditions to Avoid: Keep away ignition sources.

Incompatible Materials: Avoid strong acids and oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may produce carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Eye Contact: Contact may cause irritation based on studies with laboratory animals.

Skin Contact: Contact may cause dryness.

Inhalation: Inhalation of dust may cause irritation of the nose, throat and respiratory passages. Symptoms include coughing, sore throat, nasal congestion, sneezing wheezing and shortness of breath. May cause allergic reaction in susceptible individuals.

Ingestion: DO NOT INGEST. While this product is not toxic by ingestion, swallowing small amounts could cause complete blockage of the mouth, pharynx, trachea, esophagus and/or gastrointestinal system which may cause choking, suffocation and/or other life threatening medical conditions. Get medical attention immediately.

Acute Toxicity Data:

Proprietary Polymer blend: Oral rat LD50: 45000 mg/kg

Chronic Health Effects: Prolonged overexposure to any nuisance dust may cause lung injury. Symptoms include cough, shortness of breath and reduced pulmonary function.

Germ Cell Mutagenicity: No data available. This product is not expected to cause mutagenic activity.

Carcinogenicity: None of the components of this product are listed as carcinogens or suspected carcinogens by OSHA, IARC or NTP.

Developmental / Reproductive Toxicity: No data available. This product is not expected to cause adverse effects on reproduction or development.

Specific Target Organ Toxicity (Single Exposure): No data available.

Specific Target Organ Toxicity (Repeated Exposure): Prolonged overexposure to any nuisance dust may cause lung injury. Symptoms include cough, shortness of breath and reduced pulmonary function.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Proprietary Polymer blend: LC50 rainbow trout : 420 mg/L/96hr

This product is not expected to be toxic to aquatic organisms.

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

Not expected to bioaccumulate.

Mobility in Soil:

No mobility in soil is expected.

Other Adverse Effects: None known.

SECTION 13: DISPOSAL INFORMATION

Waste Treatment Methods

Disposal Method: Dispose in accordance with all local, state and federal regulations.

Empty Container: No special handling or disposal is required.

General Comments: It is the responsibility of the user of this product to characterize wastes generated to determine if the waste meets the definition of hazardous waste. The product uses, transformations, synthesis, mixtures, etc., may render the resulting end product subject to regulation.

SECTION 14: TRANSPORT INFORMATION

	UN Number	UN Proper Shipping Name	Transport Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not regulated	None	None	Not applicable
EU ADR/RID	None	Not regulated	None	None	Not applicable
IMDG	None	Not regulated	None	None	Not applicable

Special Precautions for User: None

SECTION 15: REGULATORY INFORMATION

Safety, Health and Environment Regulations:

US Regulations:

EPA SARA 311/312 Hazard Classification: Fire Hazard, Acute Health

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Protection Of Stratospheric Ozone: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA Section 103: This product is not subject to CERCLA spill reporting requirements. Many states have more stringent release reporting requirements. Report spills when required under federal, state and local regulations.

California Proposition 65: This product is not known to contain chemicals regulated under Proposition 65.

Canadian Regulations:

Canadian WHMIS: D-2-A

This product has been classified in accordance with the hazard criteria in the CPR and the SDS contains all the information required by the CPR.

Chemical Inventories:

US TSCA All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or are exempt.

Canadian CEPA: All of the components are listed on the Canadian DSL or are exempt.

Australia: All of the components are listed on the AICS inventory or are exempt.

China: All the components are listed on the Chinese chemical inventory or are exempt.

Philippines: All the components are listed in the Philippine Inventory.

New Zealand: All of the components are listed on the New Zealand Inventory of Chemicals.

Korea: All of the components are listed on the Korean Existing Chemicals Inventory

Japan: All the components are listed on the Japan Inventory of existing chemicals.

SECTION 16: OTHER INFORMATION

NFPA Ratings:

Health: 1 Flammability: 2 Reactivity: 0

HMIS Ratings:

Health: 1 Flammability: 2 Reactivity: 0

SDS Date of Preparation/Revision: January 14, 2015

Revision History: Conversion to GHS format. Changes in all Sections.

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