

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 3 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 3 Flammability = 0 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION

*(556N-05A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: REPEL

Address: 302 North Fourth Street
 St. Joseph, MO 64501

Date Prepared: January 20, 2011 (version 2)

Prepared by: Regulatory Affairs Department

Emergency Telephone No: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)

<http://www.hillyard.com>

***SECTION II – INGREDIENTS/IDENTITY INFORMATION**

Components

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	N/E	N/E	N/A	---
*Fluorinated Acrylic Copolymer	Unknown to Hillyard	N/E	N/E	N/A	---
V.O.C. = 0 gm./l.	N/E = not established	N/A – not applicable			

***SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

*Boiling Point: >200°F	Specific Gravity (H₂O = 1): 25°C = 1.00	*Density = 8.36 lbs/gl.
Vapor Pressure (mm Hg.): 17.5	*Percent Volatile by Weight (%): >98%	
Vapor Density (AIR = 1): 0.6	Evaporation Rate (ethyl ether = 1): slower than 1	
Solubility in Water: Complete	*Appearance and Odor: Slight yellow liquid; transparent; mild odor	
*pH 3.5 – 4.5		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: >200° (Tag Closed Cup) **Flammable Limits:** LEL = No data UEL = No data

Extinguishing Media: Use media appropriate for surrounding material.

Special Fire Fighting Procedures: Full protective equipment including self-contained breathing apparatus. Notify authorities if liquid enters sewer and public waters. Dike fire control water for later disposal (see Section VII).

Unusual Fire and Explosion Hazards: Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, throat, and respiratory irritation or toxic effects.

SECTION V – PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** Elevated temperatures

Incompatibility (Materials to Avoid): None reasonably foreseeable.

Hazardous Decomposition Products or Byproducts. Hazardous decomposition products include carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These combustion products may cause severe eye, nose, throat, and respiratory irritation or toxic effects.

Hazardous Polymerization: Will not occur **Conditions to Avoid:** None known to Hillyard

SECTION VI – HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? No

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Prolonged contact may cause skin, nose, and throat irritation. Product is not a primary skin irritant per Federal Hazardous Substance Act, Code of Federal Regulations 15, chapter IIc, paragraph 1500.41. It is not an eye irritant per FHSA, CFR 15, chapter. IIc, paragraph 1500.42. May cause defatting of skin and dermatitis. Prolonged contact with skin may produce skin corrosion. Do not spray. Inhalation of spray or mist may be fatal if inhaled. No AEL has been established for this product. Other fluorochemicals with respirable aerosol toxicity have an AEL of 1.1 mg/m³ to 1 mg/m³ (8 hour TWA) for respirable size aerosol particles. 2. None known to Hillyard.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No **I.A.R.C. Monographs =** No **OSHA =** No

SECTION VI – HEALTH HAZARD DATA continued

Signs and Symptoms of Exposure: DO NOT SPRAY. Excess inhalation of fine fog mist or fine spray may irritate nose and throat and possibly be fatal. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea; however, product did not induce mortality following oral administration at 5.0 g/kg.

Medical Conditions Generally Aggravated by Exposure: Skin problems such as industrial dermatitis. Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be adversely affected by exposure to fine fog spray or airborne particulate matter.

Emergency and First Aid Procedures: If inhaled move to fresh air immediately; get medical attention immediately. In case of contact immediately flush eyes and skin with plenty of water. Call a physician if irritation persists. If swallowed, do not induce vomiting; give 2 glasses of water and get medical attention immediately. Never give anything by mouth to an unconscious person.

Note to physician: Activated charcoal mixture may be beneficial. Suspend activated charcoal in 400 mL. water and mix well. Administer 5 mL/kg, or 350 mL for an average adult.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Ventilate area; avoid breathing of vapors; absorb with floor dry, sawdust, sand or similar inert material. Sweep or scrape up and put in appropriate container. Do not let spilled or leaking material enter watercourse. Notify authorities if liquid enters nearby water intakes. Notify local health and wildlife officials.

Waste Disposal Method: Dispose of in accordance with local, county, state and federal regulations.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Empty container may retain hazardous residue. Follow label warnings until container is thoroughly cleaned or destroyed.

Other Precautions: USE WITH ADEQUATE VENTILATION. Avoid breathing fine fog spray, over-spray or mist. DO NOT AEROSOLIZE OR ATOMIZE. Ventilate mist and fumes outside of work area. Do not use power or high pressure spray equipment. Avoid contact with eyes, skin, and clothing. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of EPA Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 Code of Federal Regulations - Part 372. Clean up equipment with soap and warm water.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): None required with good ventilation.

Ventilation: DO NOT AEROSOLIZE OR ATOMIZE. Vent mist and fumes. DO NOT USE POWER OR HIGH PRESSURE SPRAY EQUIPMENT.

Local Exhaust =	Recommended	Mechanical (General) =	Recommended	Special =	N/A	Other =	N/A
Protective	Impervious rubber gloves, apron, pants, and	Eye Protection:	Splash goggles when working close				
Gloves:	jacket		to surface				

Other Protective Clothing or Equipment: Non-absorbent protective clothing.

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: CFR = no IMCO = no IATA = no.

Proper shipping name for air and foreign water: Varnish

Proper shipping name for highway: Varnish;

UN No.: not applicable **Limited Qty.:** not applicable **Hazard class:** not applicable

Labels required: not required for highway **DOT Exception:** not applicable

EPA Hazardous waste characteristics: **Ignitability** = not applicable; **Corrosivity** = not applicable; **Reactivity** = not applicable.

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