

# MATERIAL SAFETY DATA SHEET

Date Issued: 10-24-2012

Devour

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Devour**GENERAL USE:** For professional drycleaning use only.**PRODUCT DESCRIPTION:** Stain Removal Agent**MANUFACTURER**

R. R. Street & Co. Inc.  
215 Shuman Boulevard/Suite 403  
Naperville, IL 60563

**Product Information:** 800-323-7206 (USA  
& Canada only) or 630-416-4244

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**Medical Emergency:** 866-303-6947 (USA & Canada only) or 651-632-9272

**Transportation Emergency:** 800-424-9300 (USA & Canada only) or 703-527-3887

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

The specific identity of one or more component(s) of this product are withheld as a trade secret.

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>
Protease		9014-01-1
Amylase		9000-90-2
(trade secret #1)	-	-
(trade secret #2)	-	-
(trade secret #3)	-	-
(trade secret #4)	-	-

## 3. HAZARDS IDENTIFICATION

**POTENTIAL HEALTH EFFECTS****EYES:** Substance may cause substantial eye irritation and possible damage.**SKIN:** Prolonged or repeated contact may cause dermatitis.**SKIN ABSORPTION:** Absorption through skin is possible but not a likely route of significant exposure.**INGESTION:** May cause diarrhea, vomiting. In the case of vomiting after ingestion, product may be aspirated into lungs causing chemical pneumonia, which in extreme cases could lead to death. See section 4, First Aid Measures, for more information.**INHALATION:** Aerosol may cause allergic reaction, including asthma.**SIGNS AND SYMPTOMS OF OVEREXPOSURE****EYES:** Irritation and redness.**SKIN:** Irritation.**SKIN ABSORPTION:** No data available.**INGESTION:** Irritation of mouth and throat, nausea, cramps.**INHALATION:** Irritation of the nose and upper respiratory tract, cough, difficult breathing, chest tightness.**MEDICAL CONDITIONS AGGRAVATED:** Atopy (allergies), asthma. Pre-existing disorders of the eyes, skin, and respiratory system.**ROUTES OF ENTRY:** Skin.

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Remove contaminated clothing. Wash with water. If irritation persists, call a physician.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove affected person to fresh air. If not breathing, give artificial respiration. Get medical attention.

**ADDITIONAL INFORMATION:** After emergency actions, call the emergency medical information number on page 1 or a physician immediately.

**5. FIRE FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** Not applicable.

**FLAMMABLE LIMITS:** Not applicable.

**AUTOIGNITION TEMPERATURE:** Not applicable.

**FLAMMABLE CLASS:** Not applicable.

**EXTINGUISHING MEDIA:** Not applicable.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide.

**FIRE FIGHTING EQUIPMENT:** Not applicable.

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:** Clean up spill with absorbent material and water, if necessary.

**LARGE SPILL:** Not applicable.

**7. HANDLING AND STORAGE**

**GENERAL PROCEDURES:** Not applicable.

**HANDLING:** Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

**STORAGE:** Store in labeled, tightly sealed containers in a cool area. Refrigeration of product will maintain maximum enzyme activity for a longer period of time.

**ELECTROSTATIC ACCUMULATION HAZARD:** Not applicable.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****EXPOSURE GUIDELINES:****OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

	<b>EXPOSURE LIMITS</b>					
	<b>OSHA PEL</b>		<b>ACGIH TLV</b>		<b>Supplier OEL</b>	
	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>
Protease	<b>TWA</b>	NE <sup>[1]</sup>		0.06 <sup>[2]</sup>		
	<b>STEL</b>	NE		NE		
Amylase	<b>TWA</b>	NE		NE		
	<b>STEL</b>	NE		NE		
(trade secret #1)	<b>TWA</b>	NE		NE		
	<b>STEL</b>	NE		NE		
(trade secret #2)	<b>TWA</b>	NE		NE		
	<b>STEL</b>	NE		NE		
(trade secret #3)	<b>TWA</b>	NE			5	
	<b>STEL</b>	NE			NE	
(trade secret #4)	<b>TWA</b>	NE			5	
	<b>STEL</b>	NE			NE	

**OSHA TABLE COMMENTS:**

1. NE=Not established.

2.  $\mu\text{g}/\text{m}^3$  ceiling, based on 100% pure crystalline enzyme.

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**ENGINEERING CONTROLS:** Not applicable.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Wear safety glasses with side shields, or goggles.

**SKIN:** Wear rubber or Barrier™ gloves.

**RESPIRATORY:** None required under ordinary conditions.

**PROTECTIVE CLOTHING:** Not applicable.

**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling. Do not eat or drink in work area.

**OTHER USE PRECAUTIONS:** Have eye wash station available. Do not wear contact lenses without eye protection. Do not apply product as a spray.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid.

**ODOR:** Slight fermentation odor (i.e., yeast)

**APPEARANCE:** Clear to slightly cloudy.

**COLOR:** Light yellow to brown.

**pH:** 8

**PERCENT VOLATILE:** 88

**VAPOR PRESSURE:** ~12 mm Hg at 20°C

**VAPOR DENSITY:** 0.6 (Air=1)

**BOILING POINT:** ~100°C (212°F)

**FREEZING POINT:** <0°C (32°F)

**SOLUBILITY IN WATER:** Miscible.

**EVAPORATION RATE:** ~0.3 Butyl acetate = 1

**SPECIFIC GRAVITY:** 1.1

**VISCOSITY:** No data available.

**COEFF. OIL/WATER:** No data available.

**ODOR THRESHOLD:** No data available.

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## 10. STABILITY AND REACTIVITY

**STABLE:** Yes.

**HAZARDOUS POLYMERIZATION:** No.

**CONDITIONS TO AVOID:** High temperatures.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not applicable.

**INCOMPATIBLE MATERIALS:** Acids, alkalies, nitrites.

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## 11. TOXICOLOGICAL INFORMATION

**ACUTE**

**DERMAL LD<sub>50</sub>:** No data available.

**ORAL LD<sub>50</sub>:** No data available.

**INHALATION LC<sub>50</sub>:** No data available.

**CHRONIC**

**TARGET ORGANS:** Kidneys, liver, based on animal tests on a minor component of this product.

**SENSITIZATION:** Repeated inhalation of aerosol may cause allergenic sensitization among susceptible individuals.

**CARCINOGENICITY**

**IARC:** A minor component is classified as Group 3 (Not classifiable).

**NTP:** Not listed as a carcinogen.

**OSHA:** Not listed as a carcinogen.

**OTHER:** Not applicable.

**OTHER:** No data available.

**REPRODUCTIVE EFFECTS:** No data available.

**MUTAGENICITY:** No data available.

**SYNERGISTIC MATERIALS:** No data available.

**GENERAL COMMENTS:** Refer to Section 3 for additional information on potential health effects.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** All components are biodegradable.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

**EMPTY CONTAINER:** Not applicable.

**RCRA/EPA WASTE INFORMATION:** Contains no material listed by RCRA as a hazardous waste.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not regulated.

**OTHER SHIPPING INFORMATION:** Not applicable.

### CANADA TRANSPORT OF DANGEROUS GOODS

**PROPER SHIPPING NAME:** Not regulated.

**OTHER SHIPPING INFORMATION:** Not applicable.

### AIR (ICAO/IATA)

**PROPER SHIPPING NAME:** Not regulated.

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

##### 311/312 HAZARD CATEGORIES:

**FIRE:** NO **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes

**CHRONIC:** No

**313 REPORTABLE INGREDIENTS:** None.

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA RQ:** Not applicable.

**REPORTABLE SPILL QUANTITY:** Not applicable.

**RCRA STATUS:** See section 13.

### CANADA

**WHMIS CLASS:** Class D, Division 2

### STATE REGULATIONS

#### MASSACHUSETTS

Contains one or more substances regulated by the Massachusetts Substance List.

#### CALIFORNIA

**PROPOSITION 65 STATEMENT:** This product contains no ingredients known to the state of California to cause cancer, birth defects, or other reproductive harm.

## 16. OTHER INFORMATION

HMIS RATINGS	
HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

### NFPA RATINGS

