







**RAYLENE**

HMIS		NFPA	Personal protective equipment			
Health	3	3	   			
Fire Hazard	0	0				
Reactivity	0	0				

Version Number: 1

Preparation date: 2006-06-01

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** RAYLENE

**MSDS #:** 325400701001

**Product code:** 370328, 3693527

**Recommended use:** Laundry care.

**Manufacturer, importer, supplier:**  
 US Headquarters: JohnsonDiversey, Inc. 8310 16th St. Sturtevant, Wisconsin 53177-0902  
 Phone: 1-888-352-2249  
 MSDS Internet Address: www.johnsondiversevy.com

Canadian Headquarters: JohnsonDiversey - Canada, Inc. 2401 Bristol Circle Oakville, Ontario L6H 6P1  
 Phone: 1-800-668-3131

**Emergency telephone number:** 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

DANGER. CAUSES SEVERE EYE, SKIN AND DIGESTIVE TRACT BURNS. HARMFUL IF ABSORBED THROUGH SKIN . Burns may not be immediately obvious or painful. HARMFUL IF SWALLOWED OR INHALED. Will cause hypocalcemia resulting in possibly fatal, delayed ventricular fibrillation.

**Principle routes of exposure:** Eye contact. Skin contact. Inhalation. Ingestion.

**Eye contact:** Corrosive. Causes permanent eye damage, including blindness.

**Skin contact:** Corrosive. May cause permanent damage. Burns or irritation resulting from skin contact may be delayed and not immediately apparent . Harmful if absorbed through skin .

**Inhalation:** May cause irritation and corrosive effects to nose, throat and respiratory tract. Can cause hypocalcemia resulting in possibly fatal, delayed ventricular fibrillation .

**Ingestion:** If ingested, HF may disrupt the body's electrolyte balance by binding essential metal ions such as magnesium and calcium (hypocalcemia) which may disrupt normal heart and nervous system functions. Disruptions to the body's potassium balance (hyperkalemia) may also occur. Effects may appear immediately or be delayed as much as 4 hours after exposure. Death usually results from uncontrollable ventricular fibrillation. Intravenous calcium chloride or gluconate may be indicated to prevent hypocalcemia. Consultation with a medical toxicologist is advised.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**HAZARDOUS COMPONENTS**

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Sodium silicofluoride	16893-85-9	70 - 80%	= 125 mg/kg	Not available	Not available

**4. FIRST AID MEASURES**

**Eye contact:** Immediately flush eyes for 15 minutes with flowing water. Take the victim to a physician as soon as possible. If possible, apply ice water compresses during transport.

#### 4. FIRST AID MEASURES

<b>Skin contact:</b>	Responders should put on appropriate personal protective equipment to protect themselves before assisting victims. Immediately remove all contaminated clothing. Immediately flush the affected area for five minutes with large amounts of water. While the victim is being rinsed with water, have someone call to arrange medical treatment. If the exposure is to the eyes face, groin, or covers a large area, call 911. For smaller exposure, (i.e. A few drops on the skin), call a physician or poison control center. Immediately after flushing with water start massaging 2.5% calcium glucagon gel into the burn site. Responders must wear gloves when applying the gel to prevent secondary HF burns to their hands. Apply the gel every 15 minutes and massage until pain/redness ceases or professional medical care is available .
<b>Inhalation:</b>	Immediately move the victim to fresh air. Call 911. Inhalation of HF fumes may cause swelling in the respiratory tract up to 24 hours after exposure. Persons who have inhaled HF fumes may need prophylactic oxygen treatment and should be seen by a physician as soon as possible.
<b>Ingestion:</b>	If swallowed, give a cupful of water or milk. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Aggravated Medical Conditions:</b>	Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	The product is not flammable. Extinguish fire using agent suitable for surrounding fire .
<b>Specific hazards:</b>	Not applicable
<b>Unusual hazards:</b>	Corrosive material (See sections 8 and 10).
<b>Specific methods:</b>	No special methods required

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Extinguishing media which must not be used for safety reasons:** No information available

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Use personal protective equipment
<b>Environmental precautions and clean-up methods:</b>	Clean-up methods - large spillage. Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal. Keep in suitable and closed containers for disposal. Use a water rinse for final clean-up.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not taste or swallow. Do not breathe dust. Remove and wash contaminated clothing before re-use. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. Mix only with water . DO NOT MIX WITH AMMONIA, BLEACH, OR OTHER CHLORINATED COMPOUNDS . FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
<b>Storage:</b>	Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures to reduce exposure:**  
Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

##### Personal Protective Equipment

<b>Eye protection:</b>	Chemical splash goggles.
<b>Hand protection:</b>	Chemical resistant gloves
<b>Skin and body protection:</b>	Chemical resistant apron. Protective footwear.
<b>Respiratory protection:</b>	If aerosols, mists, or vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over-exposure . A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
<b>Hygiene measures:</b>	Handle in accordance with good industrial hygiene and safety practice

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Sodium silicofluoride	16893-85-9	2.5 mg/m <sup>3</sup> (TWA)	2.5 mg/m <sup>3</sup> (TWA)	

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Powder	<b>Bulk density:</b>	1.0
<b>pH:</b>	No information available	<b>Dilution pH:</b>	3.5
<b>Appearance:</b>	Powder	<b>Vapor density:</b>	No information available
<b>Color:</b>	Light blue	<b>Evaporation Rate</b>	No information available
<b>Odor:</b>	Characteristic	<b>Boiling point/range:</b>	Not determined
<b>Specific gravity:</b>	No information available	<b>Melting point/range:</b>	Not determined

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Density:</b>	No information available.	<b>Decomposition temperature:</b>	Not determined
<b>VOC:</b>	0% *	<b>Autoignition temperature:</b>	No information available
<b>Flash point:</b>	Not applicable	<b>Partition coefficient (n-octanol/water):</b>	No information available
<b>Solubility:</b>	Soluble	<b>Solubility in other solvents:</b>	No information available
<b>Viscosity:</b>	No information available	<b>Elemental Phosphorus:</b>	0 %P

\* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	The product is stable
<b>Polymerization:</b>	Hazardous polymerization does not occur
<b>Hazardous decomposition products:</b>	None reasonably foreseeable.
<b>Materials to avoid:</b>	Do not mix with chlorinated products. Do not mix with any other product or chemical. Strong bases.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Corrosive Oral LD50 estimated to be between 50 - 400 mg/kg
<b>Component Information:</b>	See Section 3
<b>Chronic toxicity:</b>	None known
<b>Specific effects</b>	
<b>Carcinogenic effects:</b>	None known
<b>Mutagenic effects:</b>	None known
<b>Reproductive toxicity:</b>	None known
<b>Target organ effects:</b>	Hydrofluoric Acid (HF) readily penetrates skin, allowing it to destroy soft tissues and decalcify bone. Acute effects of exposure to concentrated (>5%) HF include severe pain, respiratory irritation, severe eye damage, and pulmonary edema. Exposure to less concentrated solutions may have equally serious but delayed effects. Even though HF is chemically defined as a "weak" acid it has a considerable ability to cause severe tissue damage and death. A splash of HF to more than 25% of the body can be fatal and requires immediate medical attention. Death has been reported from contact with strong HF solutions (>50%) to as little as 10% of the body's surface area. HF spills contacting the eyes, face, groin and large surface areas of the body require immediate medical attention.

## 12. ECOLOGICAL INFORMATION

<b>Environmental Information:</b>	No data available
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## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**  
Dispose of according to all federal, state and local applicable regulations

## 14. TRANSPORT INFORMATION

**DOT/TDG:** Please refer to the Bill of Lading/receiving documents for up to date shipping information

## 15. REGULATORY INFORMATION

### International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), Philippines (PICCS), China (IECSC).

### U.S. Regulations

**California Proposition 65:** This product is not subject to the reporting requirements under California's Proposition 65

### STATE RIGHT TO KNOW

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Sodium silicofluoride	16893-85-9	X	X	-	-
Sodium chloride	7647-14-5	-	-	-	-

### CERCLA/ SARA

#### SARA 311/312 Hazard Categories

Immediate:	Y
Delayed:	Y

### Canada

**WHMIS hazard class:** D1A Very toxic materials , E Corrosive material .



## 16. OTHER INFORMATION

**Reason for revision:** Not applicable  
**Prepared by:** NAPRAC  
**Additional advice:** None

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