

Material Safety Data Sheet

Emergency Telephone (313) 281-0930

SECTION I — PRODUCT IDENTIFICATION

C 2228C/6722	R 2/83	Product RAYLENE Raylene 2 Description Brightener-Sour for Commercial Laundries Chemical Mixture —
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SECTION II — HAZARDOUS INGREDIENTS

CAS Number	Chemical Component	%	TLV (Units)	Hazard Data
5893-85-9	Sodium silicofluoride			Forms strongly irritating or corrosive solutions with water. Very toxic if swallowed.

SECTION III — PHYSICAL DATA

XX Solid Liquid	Appearance and Occur Blue, free-flowing crystals
Specific Gravity 69 lbs/ft³	pH at 25 °C 1.03 3.2
Solubility in Water Complete	Freezing Point NA
Percent Volatiles (by weight) None	Phosphorus None

SECTION IV — FIRE AND EXPLOSIVE HAZARD DATA

Flash Point (method) NA	Flammable Limits NA	LFL -	UFL -
Extinguishing Media Water, water fog.			
Special Fire Hazards and Equipment Required Forms strong acidic solutions with water. Decomposes to toxic fluoride vapors at high temperature. Use self-contained breathing apparatus and full turn-out gear for fires where product is stored.			

SECTION V — REACTIVE HAZARDS

Product Stable Yes Unstable at 450 °F 240 °C	Hazardous Polymerization None	Will Not Occur ANY OF THE ABOVE
Conditions to Avoid Avoid exposure to moisture. Crystals are hygroscopic. Forms corrosive liquid when dissolved.		
Incompatibility (Materials to Avoid) Strong alkalis or other materials affected by strong acids. Attacks glass, enamel or porcelain coatings.		

SECTION VI — HEALTH HAZARDS

Forms strongly acidic liquid. Causes burns or serious irritation.

Causes severe burns or irritation with pain.

May be fatal if swallowed. Causes pain, vomiting, diarrhea, shock and possible central nervous system depression. Observe for shock, dehydration or kidney function depression.

Dust or mist is highly irritating. May cause pulmonary edema or irritation.

Threshold Limit Value
2.5 mg(F)m³ - air

Principal Routes of Absorption
Ingestion, inhalation

Immediate Effects of Overexposure
Causes burns to skin, eyes and mucous membranes. Toxic by ingestion.

Chronic Effects of Overexposure
Repeated exposure to dust may cause asthma or sensitization.

FIRST AID PROCEDURE—NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS. CALL A PHYSICIAN.

Flush eyes immediately with plenty of water. Get immediate medical attention.

Remove contaminated clothing. Wash with soap and water. Launder clothing before reuse.

Drink several glasses of milk or water. INDUCE VOMITING by touching the back of throat with a finger. Call a physician immediately.

Remove to fresh air. Give oxygen if breathing difficulty is present. Get medical attention.

SECTION VII — NORMAL HANDLING PROCEDURES

Precautions to be taken in Handling and Storage: Store in a cool, dry area. Protect from moisture. Isolate from strong alkalis or other materials affected by acids. Avoid storage in glass or in unventilated areas. Wash after handling.

KEEP OUT OF REACH OF CHILDREN.

Protective Equipment

Goggles or face shield
Rubber
Clothing to prevent skin contact
Eye wash in use area.

Ventilation Requirements NIOSH acid cartridge respirator for dust or mist areas to maintain TLV. Mechanical ventilation of 100-150 cfm in application areas.

Protective Action on Surfaces

Solution or vapors may etch glass or enamel surfaces found in home-style washers.

SECTION VIII — SPILL OR LEAK CONTROL PROCEDURES

Precautions to be taken in Spills: Sweep up. Place in a metal container and bury in an approved chemical landfill or deliver to a licensed waste disposal company. Rinse affected areas thoroughly with water.

Waste Disposal Methods: Neutralize acidity with sodium carbonate. Fluoride salts may be removed by precipitating with flaked lime and allowing to settle. Neutralize excessive alkalinity and discharge liquid to sewer. Collect and bury solids in an authorized chemical waste landfill. Consult

Disclaimer: Above information is believed to be accurate and discloses the known hazards for this product as of this date. No additional warranties are made. Consult local regulations.

Date **OCT 8 - 1985**

Signed

[Signature]

CHIEF OF MANUFACTURE