

# SAFETY DATA SHEET

Revive-R

## SECTION 1: PRODUCT & COMPANY IDENTIFICATION

**DATE:** 02/07/2015 / **Supersedes Revision:** N/A

**Manufacturer:**

PDQ Manufacturing, Inc.  
201 Victory Circle  
Ellijay, GA 30540  
Phone: (800) 248-2401  
Website: www.pdqonline.com

**EMERGENCY CONTACT:** Chemtrec, Reference CCN203605

Phone: (800) 424-9300 (collect calls accepted) / International: (703) 527-3887

**Product Name:** Revive-R

**ID Code:** 4757

**Product Category:** Powdered Detergent

## SECTION 2: HAZARD(S) IDENTIFICATION

**Acute Toxicity: Oral, Category 3**

**Acute Toxicity: Skin, Category 3**

**Acute Toxicity: Inhalation, Category 3**

**Skin Corrosion/Irritation, Category 1A**

**Skin Corrosion/Irritation, Category 1B**

**Skin Corrosion/Irritation, Category 1C**



**GHS Signal Word: DANGER**

**GHS Hazard Phrases:**

H301 - Toxic if swallowed.

H311 - Toxic in contact with skin.

H314 - Causes severe skin burns and eye damage.

H331 - Toxic if inhaled.

**GHS Precaution Phrases:**

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:**

P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352 - IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advice. Have product container or label with you when calling poison control center or physician.

P310 - Immediately call a POISON CENTER or doctor/physician.

P361 - Remove/Take off immediately all contaminated clothing.

P361 - Remove/Take off immediately all contaminated clothing.

P363 - Wash contaminated clothing before reuse.

**GHS Storage and Disposal Phrases:**

P405 - Store locked up.

P501 - Unused product is not a RCRA Hazardous waste. However, contaminated product and wastes may be RCRA hazardous. Users are advised to determine the appropriate disposal method based on local, state and federal regulations and comply with those regulations.

# SAFETY DATA SHEET

## Revive-R

### Hazard Rating System:

#### HMIS

Health: 2

Flammability: 0

Physical: 1

PPE: B

#### **Potential Health Effects (Acute and Chronic):**

**Inhalation:** May be fatal if inhaled. Causes respiratory tract irritation.

**Skin Contact:** Toxic if absorbed through skin. Causes skin irritation. May cause skin irritation.

**Eye Contact:** Causes eye irritation.

**Ingestion:** Toxic if swallowed. May cause irritation of the digestive tract. May be harmful if swallowed. Ingestion of large amounts may cause nausea and vomiting, rigidity or convulsions. Continued exposure can produce coma, dehydration, and internal organ congestion.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
16893-85-9	Sodium fluorosilicate	30.0 %
1333-83-1	Sodium bifluoride {Sodium hydrogen fluoride}	20.0 -30.0 %

### SECTION 4: FIRST-AID MEASURES

#### **Emergency and First Aid Procedures:**

**In Case of Inhalation:** If breathed in, move person into fresh air. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**In Case of Skin Contact:** Consult a physician. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Take off contaminated clothing and shoes immediately.

**In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

**In Case of Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do NOT induce vomiting. Get medical aid if irritation or symptoms occur.

**Signs and Symptoms Of Exposure:** Nausea. Burning sensation, Sores in the mouth, Lesions of the throat, Sores in the digestive tract, Tremors. Convulsions. Shock. Death may result from ingestion of two to five grams. Prolonged or repeated exposure can cause: Increased:, bone density, calcium deposits in the ligaments, new bone growth, Vomiting, Diarrhea. Abdominal pain, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Spasm, inflammation and edema of the larynx, Spasm, inflammation and edema of the bronchi, Pneumonitis. Pulmonary edema. Breathing dusts from the use of this product may be harmful. Wheezing, Laryngitis, Shortness of breath, Headache.

**Note to Physician:** Show this safety data sheet to the doctor in attendance.

### SECTION 5: FIRE-FIGHTING MEASURES

**Flash Point:** NP Method Used: Estimate

**Explosive Limits:** LEL: UEL:

**Autoignition Pt:** NA

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. May be combustible at high temperatures.

**Flammable Properties and Hazards:**

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Released Or Spilled:** Personal precautions. Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Environmental precautions. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods for cleaning up. Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Use proper personal protective equipment as indicated in Section 8. Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Do not let this chemical enter the environment.

# SAFETY DATA SHEET

## Revive-R

### SECTION 7: HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Precautions To Be Taken in Storing:** Keep container tightly closed in a dry and well-ventilated place. Store in a cool, dry place..

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
16893-85-9	Sodium fluorosilicate			
1333-83-1	Sodium bifluoride {Sodium hydrogen fluoride}			

**Respiratory Equipment (Specify Type):** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**Eye Protection:** Safety glasses. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Protective Gloves:** Handle with gloves. Wear appropriate protective gloves to prevent skin exposure. For prolonged or repeated contact use protective gloves.

**Other Protective Clothing:** Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls (Ventilation etc.):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Work/Hygienic/Maintenance Practices:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** ☐ Gas ☐ Liquid ☒ Solid

**Appearance and Odor:** Colorless, semi-fine powder  
Mild odor.

**Melting Point:** NA

**Boiling Point:** NA

**Autoignition Pt:** NA

**Flash Pt:** NP

**Explosive Limits:** LEL: UEL:

**Specific Gravity (Water = 1):**

**Density:** ~ 65 LB/CF

**Vapor Pressure (vs. Air or mm Hg):**

**Vapor Density (vs. Air = 1):**

**Evaporation Rate:**

**Solubility in Water:** < 10%

**pH:** ~ 2-4 @1%

**Percent Volatile:**

### SECTION 10: STABILITY AND REACTIVITY

**Stability:** Unstable ☐ Stable ☒

**Conditions To Avoid - Instability:** High temperatures, Incompatible materials, dust generation.

**Incompatibility – Materials To Avoid:** Incompatible with alkalis, sol carbonates, gold and silver salts, lead acetate, lime water, potassium iodide, potassium and sodium tartrate, sodium borate, tannin, vegetable astringent infusions and decoctions. bromine trifluoride, nitrogen compounds.

**Hazardous Decomposition Or Byproducts:** formed under fire conditions. Hydrogen fluoride, silicon oxides. Hydrogen chloride, sodium oxide. Sodium oxides.

**Possibility of Hazardous Reactions:** Will occur ☐ Will not occur ☒

**Conditions To Avoid -Hazardous Reactions:**

### SECTION 11: TOXICOLOGICAL INFORMATION

**Toxicological Information:** Epidemiology: The only adverse effect noted from occupational exposures have been mild nasal irritation with exposure to high dust levels and hypertension. Teratogenicity: No information available. No information found. Neurotoxicity: Acute demal toxicity: LD50 rabbit Dose > 2,000 mg/kg Skin irritation: Rabbit Non irritant Eye irritation: Rabbit minimal irritant. No data available. Respiratory or skin sensitization: Germ cell mutagenicity. Reproductive toxicity - no data available. Specific target organ toxicity -single exposure (Globally Harmonized System) Specific target organ toxicity -repeated exposure (Globally Harmonized System) Aspiration hazard.

# SAFETY DATA SHEET

## Revive-R

**Irritation or Corrosion:** Skin - rabbit - Mild skin irritation - 24 h. Eyes - rabbit - No eye irritation. Eyes - rabbit - Severe eye irritation.

**Chronic Toxicological Effects:** This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: Group 3 -Not classifiable as to carcinogen. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Carcinogenicity/Other Information:** CAS# 7647-14-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
16893-85-9	Sodium fluorosilicate	n.a.	n.a.	n.a.	n.a.
1333-83-1	Sodium bifluoride {Sodium hydrogen fluoride}	n.a.	n.a.	n.a.	n.a.

### SECTION 12: ECOLOGICAL INFORMATION

**General Ecological Information:** Environmental: Not regulated.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Product. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging. Dispose of as unused product. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

### SECTION 14: TRANSPORTATION INFORMATION (DOT/UN CLASSIFICATION)

#### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Sodium hydrogendifluoride, [solid]

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN2439 **Packing Group:** II

#### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:**



### SECTION 15: REGULATORY INFORMATION

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
16893-85-9	Sodium fluorosilicate	No	No	No
1333-83-1	Sodium bifluoride {Sodium hydrogen fluoride}	No	Yes 100 LB	No

#### CAS # Hazardous Components (Chemical Name)

16893-85-9 Sodium fluorosilicate

1333-83-1 Sodium bifluoride {Sodium hydrogen fluoride}

#### Other US EPA or State Lists

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

### SECTION 16: OTHER INFORMATION

**Revision Date:** 02/07/2015

**Preparer Name:** Regulatory Affairs

#### Additional Information About This Product:

**Company Policy or Disclaimer:** The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.