

Material Safety Data SheetQuick Identifier:
Royal Plus**Section 1**Metro-Chem, Inc.
Post Office Box 401
24 Pennsylvania Avenue
Kearny, NJ 07032Emergency Phone No. 800-424-9300
Other Information 973-589-2800
Date Prepared: February 5, 1988
Last Revision: October 28, 2004**Section 2 Hazardous Ingredients\identity**HAZARDOUS COMPONENT, CHEMICAL/COMMON NAME: Calcium Silicate CAS NO. 134-95-2
OSHA PEL: 15mg/m3 ACGIH TLV: 10mg/m3 OTHER EXPOSURE LIMITS: n/aHAZARDOUS COMPONENT, CHEMICAL/COMMON NAME: Alkyphenol Ethoxylate CAS NO. 9016-45-9
OSHA PEL: none ACGIH TLV: none OTHER EXPOSURE LIMITS: none establishedHAZARDOUS COMPONENT, CHEMICAL/COMMON NAME: Disodium Trioxosilicate Anhydrous
CAS NO. 6834-92-0 OSHA PEL: none ACGIH TLV: none OTHER EXPOSURE LIMITS: noneDOT SHIPPING INFORMATION: Corrosive solid, Basic, Inorganic, N.O.S., (Disodium
Trioxosilicate, Anhydrous), 8, UN3262, PG II**Section 3 Physical & Chemical Characteristics**

BOILING POINT: n/a SPECIFIC GRAVITY (H2O=1): 31#/cu.ft VAPOR PRESSURE (mm Hg): n/a

VAPOR DENSITY (Air=1): n/a SOLUBILITY IN WATER: complete REACTIVITY IN WATER: n/a

APPEARANCE AND ODOR: off white powder, pungent orange odor MELTING POINT: n/a

Section 4 Fire and Explosion Hazard Data

FLASH POINT: n/a METHOD USED: n/a

FLAMMABLE LIMITS IN AIR % BY VOLUME: non-flammable LEL LOWER: n/a UEL UPPER: n/a

AUTO-IGNITION TEMPERATURE: n/a EXTINGUISHER MEDIA: non-flammable mixture

SPECIAL FIRE FIGHTING PROCEDURES: Standard fire fighting techniques.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This mixture may form hydrogen gas when in contact with
aluminum, tin, lead and/or zinc.**Section 5 Physical Hazards (reactivity data)**

STABILITY: Normally Stable

CONDITIONS TO AVOID: Moist environments and acidic materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Prolonged contact with zinc, tin, lead, or aluminum
when wet.

HAZARDOUS DECOMPOSITION PRODUCTS: none

HAZARDOUS POLYMERIZATION: Will Not Occur CONDITIONS TO AVOID: none

Section 6 Health HazardsEmergency Overview: This product is highly alkaline. Dusts are corrosive to eyes, skin, and
respiratory tract. Will cause burns.

1. ACUTE (Immediate): Inhalation of dust: Alkalinity is corrosive to mucous membranes, resulting in tissue damage. Skin Contact: Will cause burns. Eye Contact: Will cause tissue destruction and blindness if not treated properly. Ingestion: Alkalinity will cause destruction of mucous membranes of the mouth, throat, esophagus, and stomach.

2. CHRONIC (Delayed Effect): Inhalation of dust: Exposure to dust will cause coughing and sneezing due to severe upper respiratory tract irritation. Skin Contact: Will cause irritation, redness, and dermatitis. Eye Contact: Exposure to dust will cause irritation, redness, and tearing. Ingestion: May cause kidney lesions at high doses.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Asthma-like conditions or other lung disorders may be aggravated by inhalation of this material.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM: NO I.A.R.C. MONOGRAPHS: NO OSHA: Not regulated

EMERGENCY AND FIRST AID PROCEDURES: Routes of Entry

1. INHALATION: Flush mouth and nasal passages thoroughly with water. Seek medical attention if symptoms persist.
2. EYES: Flush eyes and lids thoroughly with large amounts of water for at least 30 minutes while holding eyelids apart. Always seek immediate medical attention.
3. SKIN: Flush skin thoroughly with large amounts of water, wash thoroughly with soap and water. Wash clothing and shoes before reuse. If irritation occurs and persists, or if skin is damaged seek medical attention.
4. INGESTION: Do not induce vomiting. Rinse mouth with water then give large amounts of milk if available or water, then give diluted vinegar. Seek medical attention. Never give anything by mouth to an unconscious person.

Section 7 Precautions and Spill\Leak Procedures

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in dry area.

OTHER PRECAUTIONS: Wear adequate personal protection.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up as much as possible. Spilled powder may be reused if clean.

WASTE DISPOSAL METHODS (Consult federal, state, and local regulations): If non reusable, remove properly labeled container to an approved chemical waste disposal area. Comply with local, state, and federal regulations for disposal. People performing this work should wear adequate personal protective equipment and clothing.

Section 8 Special Protection Information\Control Measures

RESPIRATORY PROTECTION (Specify Type): not normally needed. In cases where large quantities are handled, and dusts are generated, NIOSH approved respirators are recommended.

VENTILATION: LOCAL EXHAUST: adequate exhaust MECHANICAL: n/a SPECIAL: n/a OTHER: n/a

PROTECTIVE GLOVES: Rubber or chemical resistant recommended.

EYE PROTECTION: Safety goggles, or glasses, or face shield required.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant shoes and/or apron recommended.

WORK/HYGIENIC PRACTICES: Eyewash station and safety showers should be handy.

We believe the information contained herein is true; however, no warranties, expressed or implied, are made or intended herein with respect to such information.