



Hummel Croton Inc.
10 Harmich Rd.
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Phone: 908-754-1800
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In Case Of Emergency Call Chemtrec®
(U.S.) (800) 424-9300
(International) (703) 527-3887

Potassium Nitrite Safety Data Sheet

1. Product and Company

Product name: Potassium Nitrite
Synonym: None
CAS-No.: 7758-09-0
Company: Hummel Croton Inc.
10 Harmich Rd.
South Plainfield, NJ 07080
Telephone: 908-754-1800
Fax: 908-754-1815

HMIS Rating	
Health	1
Flammability	0
Reactivity	3
Personal Protection	F

Emergency telephone number

Emergency Phone #: Chemtrec US: 800-424-9300
Chemtrec International: 703-527-3887

2. Hazards

GHS Classification Oxidizing solids (Category 2), H272
Acute toxicity, Oral (Category 3), H301
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

GHS Label elements

Pictogram(s)



Signal word **DANGER**

Hazard statement(s)

- H272 May intensify fire; oxidizer.
 H301 Toxic if swallowed.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

- P210 Keep away from heat.
 P220 Keep/Store away from clothing/ combustible materials.
 P221 Take any precaution to avoid mixing with combustibles.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ eye protection/ face protection.
 P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
 P391 Collect spillage.
 P405 Store locked up.
 P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None.

3. Composition/Ingredients

Substance
 Formula: KNO_2
 Molecular weight: 85.10 g/mol
 CAS-No.: 7758-09-0

Material	CAS	%	OSHA	ACGIH
Potassium Nitrite	7758-09-0	100%	15 mg/m ³ as Nuisance Dust	15 mg/m ³ as Nuisance Dust

4. First Aid

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

5. Fire Data

Flammability: Non-Flammable
Flash Point: Not Applicable
Auto Ignition: Not Applicable
Flammable Limits: Not Applicable
Extinguishing Media: Product is not flammable. Water spray or extinguishing agent most suitable for surrounding fire
Fire Fighting Procedure: Firefighters should wear full protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes. Strong oxidizer.
Fire/Explosion Hazards: Material is an oxidizer. Contact with other material may cause fire. Emits toxic fumes under fire condition. Container explosion may occur under fire conditions.

6. Accidental Release

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

7. Handling And Storage

Storage Temperatures: Store at ambient temperature
Shelf Life: Unlimited in tightly sealed container
Special Sensitivity: None.
Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

8. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.
Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.
Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

9. Physical And Chemical Properties

Physical Form: Crystals
Color: White to Slight Yellow
Odor: Odorless
Molecular Weight: 85.10
Boiling Point: Decomposes above 350°C
Melting/Freezing Point: Decomposes above 350°C
Solubility In Water: 298.4 g/100mL @20°C
Specific Gravity: 1.915

10. Stability And Reactivity

Stability: Stable.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong reducing agents, finely powdered metals, strong acids, chlorates, hypophosphites, iodides, mercury salts, permanganate, sulfites, primary amines and amides, secondary amines and amides, activated carbon, ammonium salts, cyanogen compounds, thiocyanates, thiosulfates, cyanides, sodium amide, boron.

Instable Conditions: Excessive temperatures (see incompatibilities).

Decomposition Temperature: Decomposes above 350°C

Decomposition Products: Oxides of potassium and nitrogen.

11. Toxicological Information

RTECS Number: TT3750000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: Ihl-Mus LC50: 85 gm/m³/2h Orl-Rbt LD50: 200 mg/kg

Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness.

Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

12. Ecological Information

Ecotoxicity: Not available at this time.

13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

14. Transportation Information

Proper Shipping Name: Potassium Nitrite

UN Number: 1488

Class: 5.1

P.G.: II

Label Code: 5.1

15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

16. Other Information

Prepared By: Michael Richard

Date: June 1, 2015

Reason For Issue: GHS Compliance

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