Potassium Perchlorate
Safety Data Sheet

1. Product and Company

Product name: Potassium Perchlorate
Synonym: Perchloric Acid Potassium Salt
CAS-No.: 7778-74-7
Company: Hummel Croton Inc.
          10 Harmich Rd.
          South Plainfield, NJ 07080
Telephone: 908-754-1800
Fax: 908-754-1815

Emergency telephone number
Emergency Phone #: Chemtrec US: 800-424-9300
                ChemTel International: +1-813-248-0585

2. Hazards

GHS Classification
Oxidizing solids (Category 1), H271
Acute toxicity, Oral (Category 4), H302

GHS Label elements
Pictogram(s)

Signal word   DANGER

Hazard statement(s)
H271  May cause fire or explosion; strong oxidizer.
H302 Harmful if swallowed.

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.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P283 Wear fire/ flame resistant/ retardant clothing.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P330 Rinse mouth.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
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

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS</th>
<th>%</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Percloate</td>
<td>7778-74-7</td>
<td>100%</td>
<td>15 mg/m³ as Nuisance Dust</td>
<td>15 mg/m³ as Nuisance Dust</td>
</tr>
</tbody>
</table>

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: Water spray
Fire Fighting Procedure: Extinguish fire with large amount of water. Containers near the heat source must be removed immediately or cooled with water. Do not smother the fire with a blanket. Do not use powder or CO2- type extinguishers.
Fire/Explosion Hazards: Explosion can occur if there is a fire in a closed space containing potassium perchlorate and a combustible material. A closed container with potassium perchlorate which is not open to the air can explode if heated above the decomposition temperature 600°C.

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
Odor: Odorless
Molecular Weight: 138.55 g/mol
Boiling Point: Decomposes above 600°C
Melting/Freezing Point: Decomposes above 600°C
Solubility In Water: 2 g/100mL @20°C
Specific Gravity: 2.52

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will Not occur
Incompatibilities: Combustible material, organic materials, fuels, metal powders, strong reducing agents.
Instable Conditions: Excessive temperatures (see Incompatibilities).
Decomposition Temperature: Decomposes above 600°C
Decomposition products: Potassium Chloride, Oxygen

11. Toxicological Information

RTECS Number: SC9700000
Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.
Toxicity Data: Orl-Rat LD50: 2100 mg/kg Ipr-Mus LD50: 551 mg/kg
Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolong 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 Perchlorate
UN Number: 1489
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: March 21, 2018
Reason For Issue: Emergency Contact Update

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