MATERIAL SAFETY DATA SHEET

SECTION I—CHEMICAL NAME AND SYNONYMS

Potassium Chlorate

TRADE NAME AND SYNONYMS

Berthollet’s salt

SECTION II—HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>PAINTS, PRESERVATIVES, &amp; SOLVENTS</th>
<th>%</th>
<th>TLV (Units)</th>
<th>ALLOYS AND METALLIC COATINGS</th>
<th>%</th>
<th>TLV (Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIGMENTS</td>
<td></td>
<td>BASE METAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CATALYST</td>
<td></td>
<td>ALLOYS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VEHICLE</td>
<td></td>
<td>METALLIC COATINGS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOLENTS</td>
<td></td>
<td>FILLER METAL PLUS COATING OR CORE FLUX</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADDITIVES</td>
<td></td>
<td>OTHERS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTHERS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Not Applicable—Potassium Chlorate is a single compound

SECTION III—PHYSICAL DATA

<table>
<thead>
<tr>
<th>BOILING POINT (°F)</th>
<th>decomposes</th>
<th>SPECIFIC GRAVITY (H2O = 1)</th>
<th>2.32</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAPOUR PRESSURE (mm Hg)</td>
<td>not known</td>
<td>PERCENT, VOLATILE BY VOLUME (%)</td>
<td>N.A.</td>
</tr>
<tr>
<td>VAPOUR DENSITY (AIR = 1)</td>
<td>N.A.</td>
<td>EVAPORATION RATE (H2O = 1)</td>
<td>N.A.</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>g/ml @ 20°C</td>
<td>7.1</td>
<td></td>
</tr>
<tr>
<td>APPEARANCE AND ODOR</td>
<td>White crystalline solid or powder</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION IV—FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) | Not flammable | FLAMMABLE LIMITS
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTINGUISHING MEDIA</td>
<td>water, carbon dioxide</td>
<td></td>
</tr>
<tr>
<td>SPECIAL FIRE FIGHTING PROCEDURES</td>
<td>Use plenty of water, watch for rapid burning due to oxygen generation, wear self-contained breathing apparatus.</td>
<td></td>
</tr>
<tr>
<td>UNUSUAL FIRE AND EXPLOSION HAZARDS</td>
<td>Decomposes with heat to oxygen and potassium perchlorate, enflames and/or explodes when heated with organic substances.</td>
<td></td>
</tr>
</tbody>
</table>
SECTION V—HEALTH HAZARD DATA

Threshold Limit Value
Not established, LDLo (human) 429 mg/kg; LDLo (Rat) 7000 mg/kg.

Effects of Overexposure
Ingestion — Can cause hemolysis of red blood cells and methemoglobinemia. and delayed damage to the liver and kidneys.

Emergency and First Aid Procedures
Ingestion — Induce vomiting, call a physician
Eyes — Flush eyes with water, holding lids apart for 15 minutes. Consult a physician.

SECTION VI—REACTIVITY DATA

Stability
<table>
<thead>
<tr>
<th>UNSTABLE / X</th>
</tr>
</thead>
<tbody>
<tr>
<td>STABLE</td>
</tr>
</tbody>
</table>

Conditions to Avoid
Heat, contact with other materials.

Incompatibility (Materials to avoid)
Sulfuric Acid, organic substances, sulfur, phosphorous, sulfite, oxidizable substances.

Hazardous Decomposition Products
Oxygen, Potassium Perchlorate

Hazardous Polymerization
MAY OCCUR

Conditions to Avoid
WILL NOT OCCUR / X

SECTION VII—SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Small spills — sweep up and flush down drain with plenty of water. Larger spills — do not get on floor. Sweep up and remove immediately to an area away from flammable material. Store pending disposal in metal containers.

Waste Disposal Method
Dispose of in accordance with all Federal, local, and state regulations concerning health and pollution. Dispose via approved chemical waste disposal method.

SECTION VIII—SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify type)
NIOSH Approved respirator for dusts

Ventilation
LOCAL EXHAUST — To control dust
MECHANICAL (General)

Protective Gloves
Polyethylene

Eye Protection
Goggles

Other Protective Equipment
Neoprene apron and boots

SECTION IX—SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing
Keep tightly closed in original container, store in a cool, dry place away from flammable materials.

Other Precautions
Chlorate contaminated clothing, paper, and other flammables can spontaneously burst into flames or ignite with a spark or friction when dry.