Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Potassium Chloride, Saturated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>EMD Chemicals Inc.</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 70</td>
</tr>
<tr>
<td></td>
<td>480 Democrat Road</td>
</tr>
<tr>
<td></td>
<td>Gibbstown, NJ 08027</td>
</tr>
<tr>
<td></td>
<td>Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.</td>
</tr>
<tr>
<td>Product Code</td>
<td>VW3242</td>
</tr>
<tr>
<td>Effective Date</td>
<td>3/1/2004</td>
</tr>
<tr>
<td>Print Date</td>
<td>5/3/2004</td>
</tr>
</tbody>
</table>

For More Information Call
856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call
800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym
None.

Material Uses
Laboratory Reagent

Chemical Family
Inorganic salt solution.

Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTASSIUM CHLORIDE</td>
<td>7447-40-7</td>
<td>36-38</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt;62</td>
</tr>
</tbody>
</table>

Section 3. Hazards Identification

Physical State and Appearance
Liquid.

Emergency Overview
CAUTION!
CAUSES EYE IRRITATION.
MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.
MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.
MAY BE IRRITATING ON CONTACT WITH MUCOUS MEMBRANES.

Routes of Entry
Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

* Eyes: Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.
* Skin: May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Non-permeator by skin.
* Inhalation: May be hazardous in case of inhalation (lung irritant).
* Ingestion: May be hazardous in case of ingestion.

Potential Chronic Health Effects

Carcinogenic Effects
This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)
Section 4. First Aid Measures

Eye Contact
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product
Non-flammable.

Auto-ignition Temperature
Not applicable.

Flash Points
Not applicable.

Flammable Limits
Not applicable.

Products of Combustion
Not applicable.

Fire Hazards in Presence of Various Substances
Not applicable.

Explosion Hazards in Presence of Various Substances
Risks of explosion of the product in presence of static discharge: No.
Risks of explosion of the product in presence of mechanical impact: No.

Fire Fighting Media and Instructions
Use extinguishing media suitable for surrounding materials.

Protective Clothing (Fire)
Wear suitable protective clothing.

Special Remarks on Fire Hazards
Not available.

Special Remarks on Explosion Hazards
Not available.

Section 6. Accidental Release Measures

Small Spill and Leak
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill and Leak
Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Spill Kit Information
The following EMD Chemicals Inc. SpillSolv (TM) absorbent is recommended for this product: SX1320  Caustic Treatment Kit
**Section 7. Handling and Storage**

**Handling**
Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Use with adequate ventilation. Wash thoroughly after handling.

**Storage**
Keep container tightly closed.

**Section 8. Exposure Controls/Personal Protection**

**Engineering Controls**
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

**Personal Protection**

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Splash goggles.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Lab coat.</td>
</tr>
<tr>
<td>Respiratory</td>
<td>Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.</td>
</tr>
<tr>
<td>Hands</td>
<td>Gloves.</td>
</tr>
<tr>
<td>Feet</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Protective Clothing (Pictograms)**

**Personal Protection in Case of a Large Spill**
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Section 9. Physical and Chemical Properties**

**Odor**
Odorless.

**Color**
Clear.

**Physical State and Appearance**
Liquid.

**Molecular Weight**
Not applicable.

**Molecular Formula**
Not applicable.

**pH**
5 to 8 [Acidic.]

**Boiling/Condensation Point**
The lowest known value is 99.9°C (211.8°F) (Water).

**Melting/Freezing Point**
May start to solidify at -0.1°C (31.8°F) based on data for: Water.

**Specific Gravity**
Not available.

**Vapor Pressure**
Not available.

**Vapor Density**
Not available.

**Odor Threshold**
Not available.

**Evaporation Rate**
0.36 (Water) compared to(n-Butyl Acetate =1)

*Continued on Next Page*
Solubility
Easily soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity
The product is stable.

Conditions of Instability
Not available.

Incompatibility with Various Substances
Not available.

Rem/Incompatibility
Explodes in presence of bromine trifluoride.

Hazardous Decomposition Products
K20

Hazardous Polymerization
Will not occur.

Section 11. Toxicological Information

RTECS Number:
Potassium Chloride TS8050000
Water ZC0110000

Toxicity
Acute oral toxicity (LD<sub>50</sub>): 4054 mg/kg (Mouse) (Calculated value for the mixture).

Chronic Effects on Humans
Not available.

Acute Effects on Humans
Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Non-permeator by skin. May be hazardous in case of inhalation (lung irritant). May be hazardous in case of ingestion.

Special Remarks on Other Toxic Effects on Humans
MAY BE IRRITATING ON CONTACT WITH MUCOUS MEMBRANES.

Synergetic Products (Toxicologically)
Not available.

Irritancy
Draize Test: Not available.

Sensitization
Not available.

Carcinogenic Effects
This material is not known to cause cancer in animals or humans.

Toxicity to Reproductive System
Not available.

Teratogenic Effects
Not available.

Mutagenic Effects
Not available.

Section 12. Ecological Information

Ecotoxicity
Not available.

BOD<sub>5</sub> and COD
Not available.

Toxicity of the Products of Biodegradation
The products of degradation are less toxic than the product itself.
**Section 13. Disposal Considerations**

**EPA Waste Number**
Not available.

**Treatment**
Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

**Section 14. Transport Information**

**DOT Classification**
Not available.

**TDG Classification**
Not available.

**IMO/IMDG Classification**
Not available.

**ICAO/IATA Classification**
Not available.

**Section 15. Regulatory Information**

**U.S. Federal Regulations**
TSCA 8(b) inventory: POTASSIUM CHLORIDE; Water
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: POTASSIUM CHLORIDE
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: POTASSIUM CHLORIDE: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

**WHMIS (Canada)**
Class D-2B: Material causing other toxic effects (TOXIC).

**CEPA DSL**
POTASSIUM CHLORIDE; Water
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

**International Regulations**

**EINECS**
POTASSIUM CHLORIDE 231-211-8
Water 231-791-2

**DSCL (EEC)**
R38- Irritating to skin.
R41- Risk of serious damage to eyes.

**International Lists**
Australia (NICNAS): POTASSIUM CHLORIDE; Water
Japan (MITI): POTASSIUM CHLORIDE; Water
Korea (TCCL): POTASSIUM CHLORIDE; Water
Philippines (RA6969): POTASSIUM CHLORIDE; Water
China: No products were found.

**State Regulations**
New Jersey: Potassium Chloride, Saturated
California prop. 65: No products were found.

*Continued on Next Page*
Section 16. Other Information

Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.