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## MATERIAL SAFETY DATA SHEET

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**EMERGENCY ASSISTANCE - 24 hour**  
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For emergency assistance involving chemicals call CHEMTREC (800) 424-9300.

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**SECTION 1: MATERIAL INFORMATION**  
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**Common Name:** POTASSIUM HYDROXIDE, 40%  
**Synonyms:** Voges-Proskauer #2; Caustic Potash, 40%  
**Catalog Number:** R6670, R6672, R6671  
**CAS #:** N/AV  
**WARNING:** POISON, CAUSTIC

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**SECTION 2: HAZARDOUS INGREDIENTS**  
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| <u>Hazardous Components</u> | <u>CAS #</u> | <u>Chemical Family</u>     | <u>Molecular Formula</u> | <u>Approximate Concentration</u> |
|-----------------------------|--------------|----------------------------|--------------------------|----------------------------------|
| Potassium Hydroxide         | 1310-58-3    | Alkali<br>(Inorganic base) | KOH                      | 40%                              |

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**SECTION 3: PHYSICAL DATA**  
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|  |   |                            |
|--|---|----------------------------|
| <b>Appearance:</b> Clear, colorless liquid | <b>pH:</b> N/AV                         | <b>Vapor Density:</b> N/AV |
| <b>Boiling Point:</b> N/AV                 | <b>Solubility in Water:</b> Appreciable | <b>Flash Point:</b> N/AV   |
| <b>Melting Point:</b> N/AV                 | <b>Vapor Pressure:</b> N/AV             | <b>Evaporation:</b> N/AV   |
| <b>Odor:</b> Odorless                      | <b>Specific Gravity:</b> N/AV           |                            |

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**SECTION 4: FIRE AND EXPLOSION HAZARD**  
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**Flammable:** No

**Flammable Limits:**  
 Upper: N/AP      Lower: N/AP

**Extinguish Media:**  
 Water fog, CO<sub>2</sub>, "alcohol" foam

**Special Hazards:**  
 Wear self-contained, positive-pressure breathing apparatus and full protective clothing.

**Unusual Fire and Explosion Hazards:**  
 May emit toxic fumes under fire conditions.

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**SECTION 5: REACTIVITY DATA**  
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Stable:       Unstable:

**Conditions to Avoid:**  
 Heat, sparks, open flame

**Materials to Avoid:**  
 Water -  
 Acids -  
 Bases -  
 Corrosives -  
 Oxidizers -  
 Other: Organic materials

**Hazardous Decomposition Products:**  
 In contact with metals hydrogen gas may be generated.

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**SECTION 6: HEALTH HAZARD DATA**


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To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated. Presented below are specific data on each of the subcomponent ingredients:

| <u>Hazardous Component</u> | <u>%</u> | <u>Threshold<br/>Limit Value</u> | <u>TXDS</u>             |
|----------------------------|----------|----------------------------------|-------------------------|
| Potassium Hydroxide        | 40%      | 2 mg/m <sup>3</sup>              | ORL-RAT LD50: 365 mg/kg |

**Effects of Overexposure (Acute and Chronic)\*:**

Highly caustic. Fatal injury possible.

Can cause severe burns, destroy tissue on contact, deep ulceration may result. Can damage eyes severely resulting in blindness. Inhalation of fumes may be corrosive to the respiratory tract.

\* A physician should see all case except minor exposure.

**Carcinogenicity:** These products do not contain any carcinogens at 0.1% or greater.

**First Aid Procedure:**

**Skin Contact:** Flush with water for 15 minutes.

**Eye Contact:** Flush with water for 15 minutes. Seek medical attention.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen; seek medical attention.

**Ingestion:** Do not induce vomiting. Give water to dilute. Seek medical attention immediately.

In all cases of overexposure seek medical attention.

Wash contaminated clothing before reuse.

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**SECTION 7: SPILL OR LEAK PROCEDURES AND DISPOSAL**


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**Steps to be taken if Material is Released or Spilled:**

Dilute with water and collect with an absorbent material. Ventilate area and wash spill area with water after material is picked up.

**Waste Disposal Method:**

Observe all local, provincial, state, and federal regulations.

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**SECTION 8: SPECIAL PROTECTION INFORMATION**


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Provide adequate general mechanical and local exhaust ventilation.

Avoid prolonged or repeated inhalation of vapor.

Protective clothing (natural rubber, neoprene or equivalent) should be worn when handling this material.

Protect eyes, and skin, with safety glasses with side shields, face shield and chemical resistant gloves.

Wash thoroughly after handling.

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**SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS**


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Keep container tightly closed. Store in cool, dry area. Keep from physical damage.

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**SECTION 10: MSDS PREPARATION AND INFORMATION**


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Revised By: Charissa H. Bolind

Authorized Signature: \_\_\_\_\_


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