Material Safety Data Sheet
Potassium Hydride, 20-25% wt.% Dispersion in Mineral Oil
ACC# 00046

Section 1 - Chemical Product and Company Identification

**MSDS Name:** Potassium Hydride, 20-25% wt.% Dispersion in Mineral Oil
**Catalog Numbers:** AC201710000, AC201710250, AC201711000
**Synonyms:** None.
**Company Identification:**
- Acros Organics N.V.
- One Reagent Lane
- Fair Lawn, NJ 07410

**For information in North America, call:** 800-ACROS-01
**For emergencies in the US, call CHEMTREC:** 800-424-9300

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7693-26-7</td>
<td>POTASSIUM HYDRIDE</td>
<td>20-25</td>
<td>231-704-8</td>
</tr>
<tr>
<td>8042-47-5</td>
<td>MINERAL OIL</td>
<td>Balance</td>
<td>232-455-8</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: tan solid/liquid mixture.
**Target Organs:** Central nervous system, eyes, skin, mucous membranes.

**Potential Health Effects**
**Eye:** Causes eye burns.
**Skin:** Causes skin burns. May cause cyanosis of the extremities.
**Ingestion:** Causes gastrointestinal tract burns. Ingestion of large amounts may cause CNS depression.
**Inhalation:** Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. May cause headache, dizziness, blurred vision, decreased blood pressure, and slowed pulse.
**Chronic:** Effects may be delayed. Chronic exposure may cause effects similar to those of acute exposure.

Section 4 - First Aid Measures
Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.
Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.
Ingestion: If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Water reactive. Material will react with water and may release a flammable and/or toxic gas. Will be easily ignited by heat, sparks or flame. Containers may explode if exposed to fire.
Extinguishing Media: Use dry sand or earth to smother fire. Do NOT use carbon dioxide. Do NOT use alcohol foams. Do NOT use halogenated agents. DO NOT USE WATER! Use dry chemical. Do NOT get water inside containers.
Flash Point: Not available.
Autoignition Temperature: Not available.
Explosion Limits, Lower: N/A
Upper: N/A
NFPA Rating: (estimated) Health: 3; Flammability: 3; Instability: 2; Special Hazard: -W-

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not expose spill to water. Do not get water inside containers. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage

Handling: Ground and bond containers when transferring material. Use spark-proof tools
and explosion proof equipment. Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not ingest or inhale. Do not allow contact with water. Use only in a chemical fume hood. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from heat, sparks, and flame. Keep away from heat and flame. Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Water free area. Storage under a nitrogen blanket has been recommended.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTASSIUM HYDRIDE</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>MINERAL OIL</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** POTASSIUM HYDRIDE: No OSHA Vacated PELs are listed for this chemical. MINERAL OIL: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

**Physical State:** Solid/Liquid Mixture

**Appearance:** tan

**Odor:** Not available.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 316 deg C @ 760.00mm Hg

**Freezing/Melting Points:** Not available.

**Decomposition Temperature:** Not available.

**Solubility:** Reacts.

**Specific Gravity/Density:** 1.4500g/cm3

**Molecular Formula:** HK
Molecular Weight: 40.11

Section 10 - Stability and Reactivity

Chemical Stability: Reacts violently with water.
Conditions to Avoid: Ignition sources, exposure to air, contact with water, excess heat.
Incompatibilities with Other Materials: Acids, bases, alcohols, oxidizing agents, reducing agents, chlorinated solvents, fluoroalkenes, halogens, nitro compounds, carbonyl compounds, halocarbons, active metals, fluorine, sulfur, phosphorus, acrylonitrile, tetrahydrofuran, water.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen gas, oxides of potassium.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: 
CAS# 7693-26-7 unlisted.
CAS# 8042-47-5: PY8047000
LD50/LC50: 
Not available.
Not available.

Carcinogenicity:
CAS# 7693-26-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 8042-47-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Mutagenicity: No data available.
Neurotoxicity: No data available.
Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Pseudomonas putida:

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.
Section 14 - Transport Information

<table>
<thead>
<tr>
<th>Shipping Name:</th>
<th>US DOT</th>
<th>Canada TDG</th>
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<tbody>
<tr>
<td>METAL HYDRIDES, WATER REACTIVE, N.O.S.</td>
<td>4.3</td>
<td>METAL HYDRIDES WATER-REACTIVE NOS (POTASSIUM HYDRIDE)</td>
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<td>Hazard Class:</td>
<td>UN1409</td>
<td>4.3</td>
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<tr>
<td>UN Number:</td>
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<td>UN1409</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>I</td>
<td>I</td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 7693-26-7 is listed on the TSCA inventory.
CAS# 8042-47-5 is listed on the TSCA inventory.

Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.

Section 12b
None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.

SARA Codes
CAS # 8042-47-5: immediate.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
CAS# 7693-26-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
CAS# 8042-47-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65
California No Significant Risk Level: None of the chemicals in this product are listed.
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:
F C
Risk Phrases:
R 11 Highly flammable.
R 14/15 Reacts violently with water liberating extremely flammable gases.
R 34 Causes burns.

Safety Phrases:
S 16 Keep away from sources of ignition - No smoking.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 7/8 Keep container tightly closed and dry.
S 43A In case of fire, use dry chemical (never use water).

WGK (Water Danger/Protection)
CAS# 7693-26-7: No information available.
CAS# 8042-47-5: No information available.

Canada - DSL/NDSL
CAS# 8042-47-5 is listed on Canada's DSL List.
CAS# 7693-26-7 is listed on Canada's NDSL List.

Canada - WHMIS
This product has a WHMIS classification of E, F, B2.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

Section 16 - Additional Information

MSDS Creation Date: 2/02/1998
Revision #7 Date: 3/15/2007

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.