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

MSDS# 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 BVBA
Janssen Pharmaceuticaalana 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

Risk Phrases: 11 14/15 34
CAS#: 7693-26-7
Chemical Name: POTASSIUM HYDRIDE
%: 20 - 25
EINECS#: 231-704-8
Hazard Symbols: F C

Risk Phrases:
CAS#: 8042-47-5
Chemical Name: MINERAL OIL
%: 75 - 80
EINECS#: 232-455-8
Hazard Symbols:

Text for R-phrases: see Section 16
Hazard Symbols: F C

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

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. 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 at 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: 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:

Section 5 - Fire Fighting Measures

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.

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: N/A

Explosion Limits: Upper: N/A

NFPA Rating: ; Special Hazard: -W-

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

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.

Spills/Leaks: 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

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.

Keep away from heat, sparks, and flame. Keep away from heat and flame. Keep away from sources of ignition.

Storage: 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

<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: None listed MINERAL OIL: None listed

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.

Exposure Limits

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.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: 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
Color: 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 (600.80°F)
Freezing/Melting Point: Not available
Decomposition Temperature: Not available
Solubility in water: 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: Oxidizing agents, reducing agents, acids, bases, acrylonitrile, active metals, alcohols, carbonyl compounds, chlorinated solvents, fluoroalkenes, fluorine, halocarbons, halogens, nitro compounds, phosphorus, sulfur, tetrahydrofuran, water.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen gas, oxides of potassium.
Section 11 - Toxicological Information

Polymerization: Will not occur.

RTECS#: CAS# 7693-26-7: None listed
       CAS# 8042-47-5: PY8047000

LD50/LC50: RTECS: Not available. RTECS: Not available.

Carcinogenicity: POTASSIUM HYDRIDE - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
                 MINERAL OIL - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Ecotoxicity: Fish: Pseudomonas putida:

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: METAL HYDRIDES, WATER REACTIVE, N.O.S.
Hazard Class: 4.3
UN Number: UN1409
Packing Group: I
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

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 7/8 Keep container tightly closed and dry.
   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 43A In case of fire, use dry chemical (never use water).
   S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)
CAS# 7693-26-7: Not available
CAS# 8042-47-5: Not available

Canada
CAS# 7693-26-7 is listed on Canada's NDSL List
CAS# 8042-47-5 is listed on Canada's DSL List
Canadian WHMIS Classifications: 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.
CAS# 7693-26-7 is not listed on Canada's Ingredient Disclosure List.
CAS# 8042-47-5 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

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

Section 16 - Other Information

MSDS Creation Date: 2/02/1998
Revision #9 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company 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 the company has been advised of the possibility of such damages.

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