Kingfield Hydrogel

Hydrogel - Kingfield Construction Products

SAFETY DATA SHEET (SDS)

I - COMPANY AND PRODUCT INFORMATION

Product Name: Hydrogel
Manufacturer: Kingfield Construction Products, Inc.
Address: 530 North 3rd Street, Suite #230
          Minneapolis, Minnesota 55401 USA
Contact Number: +1 (612) 225-5167
E-Mail Date: info@kingfieldcp.com
October, 2013

II - INGREDIENT NAMES AND COMPOSITION

DESCRIPTION: Poly Rubber Gel Waterproofing Material
CHEMICAL FAMILY: N.A.

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OTHER NAME</th>
<th>C.A.S Number</th>
<th>CONTENT %</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPHALT</td>
<td>BITUMEN</td>
<td>8052-42-4</td>
<td>N. AV.</td>
</tr>
<tr>
<td>PROCESS OIL</td>
<td>RUBBER CHIP</td>
<td>68791-76-6</td>
<td>N. AV.</td>
</tr>
<tr>
<td>HYDROTREATED RAFFINATE</td>
<td></td>
<td>64742-57-0</td>
<td>N. AV.</td>
</tr>
<tr>
<td>HYDROCARBON RESIN</td>
<td></td>
<td>64742-16-1</td>
<td>N. AV.</td>
</tr>
<tr>
<td>POLYOLEFIN</td>
<td>1-Propene</td>
<td>9003-07-0</td>
<td>N. AV.</td>
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<td>S1(SECRET)</td>
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<td>S1(SECRET)</td>
<td>N. AV.</td>
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</tbody>
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III - PHYSICAL DATA

APPEARANCE: Solid of black or Semi-Solid (Viscid)
ODOR: Slight asphalt odor
PH: No data available
SOLUBILITY: Insoluble
MELTING POINT: No data available
BOILING POINT RANGE: 680~752°F
VAPOR PRESSURE: No data available
IGNITION OR EXPLOSION RANGE: Not applicable
SPECIFIC GRAVITY: 0.9~1.0
OCTANOL-WATER PARTITION COEFFICIENT: No data available
DECOMPOSITION TEMPERATURE: No data available
VAPOR DENSITY: No data available
EVAPORATING RATE: No data available
MOLECULAR WEIGHT: No data available

IV - FIRE AND EXPLOSION HAZARD DATA

FIRE AND EXPLOSION HAZARD: Combustible
FLASH POINT: 424°F
SPONTANEOUS COMBUSTION POINT: 707~752°F
DANGEROUS ARTICLES CLASS: Chapters 4 petroleum 4
EXTINGUISHER METHOD: Foam, CO₂, watering, powder extinguisher materials, dry send.
SPECIAL FIRE FIGHTING PROCEDURES:
- Keep upwind
- Full protective equipment including self-contained breathing apparatus should be used.
- Move combustible materials from fire area.

TOXIC SUBSTANCES CAUSED BY COMBUSTION:
- Carbon monoxide and other toxic carbon compounds
V – REACTIVITY DATA

| CHEMICAL STABILITY AND POSSIBILITY OF HARMFUL RESPONSE: | -Normal temperature and pressure is stable  
-Containers may explode when heated to high temperatures  
-Not easily ignited but some can take fire, irritant or toxic gases may be fired |
| CONDIMENTS TO AVOID: | Solvents, flame ignition sources |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Carbon Monoxide and other toxic compound |
| LIKELY TO DEVELOP HAZARDOUS MATERIAL RESPONSE: | No data available |

VI – HEALTH HAZARD DATA

| EYES: | Acute: Irritation, thermal burn |
| SKIN: | Chronic: blister, rash |
| INHALATION: | Acute: displeasure, dizziness, vomit |
| INGESTION: | Acute: nausea, vomit, dizziness, unconsciousness |

VII - EMERGENCY AND FIRST AID PROCEDURES

| EYES: | Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15~20 minutes). Get medical attention immediately. |
| SKIN: | Remove contaminated clothing and shoes immediately. Launder before reuse. Wash affected area thoroughly with soap and water, until no evidence of material remains (at least 15~20 minutes). Get medical attention immediately if material is hot and burned the skin. |
| INHALATION: | Remove from exposure area to fresh air immediately. In case of difficulty with breathing, perform artificial respiration and get medical attention immediately. |
| INGESTION: | Call a physician immediately, ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. |

VIII – PRECAUTIONS FOR SAFE HANDLING AND USE

| SPILLS: | Life Protection: Isolate hazard area and restrict entry. Eliminate all sources of ignition. Environmental Protection: Eliminate leaking material. Prevent the spread of leaking material. Elimination Method: Wipe the product with sand, soil or cloth. Put the leaking material in container and dispose of container by the procedure. Clean up contamination area with cleanser and water. |
| DISPOSAL: | Put the leaking material in container and dispose of in accordance with federal, state and local authorities and the Waste Management Act. |
| HANDLING: | Avoid contact with eyes, skin and clothing. Wear protective equipment and wash thoroughly after handling. |
| STORAGE: | Keep container tightly closed and keep away from all ignition sources such as open flame, and spark. |

IX – CONTROL MEASURES

| VENTILATION: | If dizziness occurs, seek fresh air |
| RESPIRATORY: | When used frequently or in a confined spaces, wear a safety mask. |
| EYES: | Wear safety glasses. |
| SKIN: | Wear non-penetrable clothes, chemical and heat protecting gloves, heat protective clothing. |

X – SHIPPING AND LABEL DATA

| UN NO.: | UN classification no information on hazardous substances |
| TRANSPORT CONSIDERATIONS: | Avoid physical shock, fire |
| PROPER SHIPPING NAME: | No data |
## XI – ADDITIONAL INFORMATION

### TOXICITY

#### ASPHALT:
- **Acute oral toxicity**: LD50 > 500 mg/kg Rat
- **Acute dermal toxicity**: LD50 > 200 mg/kg Rabbit
- **Acute inhalation toxicity**: No data available
- **Mutagenicity**: Salmonella – Positive reaction, Rat – Negative reaction
- **Reproductive toxicity**: No data available
- **Carcinogenicity**:
  - Industrial safety of health law article: No data available
  - OSHA: No data available
  - IARC: Group 3
  - ACGIH: A4
  - NTP: No data available
  - EU CLP: No data available

#### PROCESS OIL:
- **Acute oral toxicity**: No data available (components of the Industrial Safety and Health Act of mineral oil 3900 mg/m³ 4 hr taken inhaled LC50)
- **Acute inhalation toxicity**: Vertigo, Vomit, Nausea, Brash etc.
- **Subacute toxicity**: No data available
- **Chronic toxicity**: No data available
- **Mutagenicity**: No data available
- **Reproductive toxicity**: No data available
- **Carcinogenic toxic substance**: Not applicable

#### RUBBER:
- **Acute oral toxicity**: No data available
- **Acute dermal toxicity**: No data available
- **Acute inhalation toxicity**: No data available
- **Mutagenicity**: No data available
- **Reproductive toxicity**: No data available
- **Carcinogenicity**:
  - OSHA: No data available
  - IARC: No data available
  - ACGIH: No data available
  - NTP: No data available
  - EU CLP: No data available

#### HYDROTREATED RAFFINATE:
- **Acute oral toxicity**: No data available
- **Acute dermal toxicity**: No data available
- **Acute inhalation toxicity**: No data available
- **Mutagenicity**: No data available
- **Reproductive toxicity**: No data available
- **Carcinogenicity**:
  - Industrial safety of health law article: No data available
  - OSHA: No data available
  - ACGIH: No data available
  - NTP: No data available
  - EU CLP: Carc. 1B (DMSO extract measured by how IP346 less than 3% except in the case)

#### HYDRO CARBON RESIN:
- **Acute oral toxicity**: LD50 7000mg/kg(mammal)
- **Acute dermal toxicity**: No data available
- **Acute inhalation toxicity**: No data available
Mutagenicity : No data available
Reproductive toxicity : No data available
Carcinogenicity :
  Industrial safety of health law article: No data available
  -OSHA: No data available
  -IARC: No data available
  -ACGIH: No data available
  -NTP: No data available
  -EU CLP: No data available

S1 (SECRET)

Acute oral toxicity : LD50 > 5000 mg/kg Rat
Acute dermal toxicity : No data available
Acute inhalation toxicity : No data available
Mutagenicity : No data available
Reproductive toxicity : No data available
Carcinogenicity :
  -Industrial safety of health law article: No data available
  -OSHA: No data available
  -ACGIH: No data available
  -NTP: No data available
  -EU CLP: No data available

IMPACT ON THE ENVIRONMENT

ECOTOXICITY: No data
PERSISTENCE AND DEGRADABILITY: No data
MOBILITY IN SOIL: No data
BIOACCUMULATIVE POTENTIAL: No data

DISPOSAL CONSIDERATIONS

HOW TO DISPOSE: In accordance with Waste Management Act and the courage to discard the contents and containers
DISPOSAL CONSIDERATIONS: Refining criteria must comply with the Waste Management Act

TRANSPORT INFORMATION

UN NO.: UN classification no information on hazardous substances
TRANSPORT CONSIDERATIONS: Avoid physical shock, fire EYES
PROPER SHIPPING NAME: No data
PACKING: No data
TRANSPORTATION-RELATED REGULATIONS AND LAWS: Fire Hazard Chapters 4 petroleum law because it is equivalent to transportation must comply with fire regulations.

REGULATORY INFORMATION

REGULATIONS BY OCCUPATIONAL SAFETY AND HEALTH: Occupational safety and health Act Article 41.
REGULATED BY THE TOXIC CHEMICALS CONTROL ACTS: No Data
OTHER FOREIGN LAW
  -OSHA: No data
  -TSCA: No data
  -SARA: No data
  -EU: No data

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