SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:
Product Name: Die-Keen Green

Other means of identification:
Synonyms: None

Recommended use of the chemical and restrictions on use:
Product Use/Restriction: None.

Chemical manufacturer address and telephone number:
Manufacturer Name: Kulzer, LLC (Mitsui Chemicals Group)
Address: 4315 South Lafayette Blvd.
South Bend, Indiana 46614-2517
USA
General Phone Number: 800-431-1785
Emergency phone number: Chemtrec @ 1-800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):
GHS Pictograms:

Signal Word: WARNING.
GHS Class: Eye Irritation. Category 2.
Hazard Statements: H319 - Causes serious eye irritation.
Precautionary Statements: P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified that have been identified during the classification process:
Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:
Eye: Eye contact with the dust may cause irritation.
Skin: May cause skin irritation.
Inhalation: May be harmful if inhaled.
Ingestion: May be harmful if ingested.
Aggravation of Pre-Existing Conditions: None generally recognized.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
<th>EC Num.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyvinyl Alcohol</td>
<td>9002-89-5</td>
<td>1 - 5 by weight</td>
<td></td>
</tr>
<tr>
<td>Ammonium Naphthalene Sulfonate</td>
<td>9069-80-1</td>
<td>1 - 5 by weight</td>
<td></td>
</tr>
<tr>
<td>Portland Cement</td>
<td>65997-15-1</td>
<td>1 - 5 by weight</td>
<td></td>
</tr>
<tr>
<td>Plaster of Paris</td>
<td>26499-65-0</td>
<td>80 - 90 by weight</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 4 : FIRST AID MEASURES

**Description of necessary measures:**

**Eye Contact:**
If dust gets into eyes. Flush eye with water for 15 minutes. Remove contact lenses, if applicable, and continue flushing. If eye irritation persists, consult a specialist.

**Skin Contact:**
If dust gets onto the skin. Wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

**Inhalation:**
If dust is inhaled, remove the affected person to fresh air. If symptoms persist, get medical attention.

**Ingestion:**
Accidental ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur.

SECTION 5 : FIRE FIGHTING MEASURES

**Suitable and unsuitable extinguishing media:**

**Suitable Extinguishing Media:**
Use any extinguishing media appropriate for the surrounding fires. Dike to control run-on/run-off if water is used to fight fires.

**NFPA Ratings:**
- NFPA Health: 1
- NFPA Flammability: 0
- NFPA Reactivity: 1

SECTION 6 : ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

**Personal Precautions:**
Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Persons responding to an accidental release should wear coveralls, gloves, safety glasses or other protective clothing as required. Close-fitting goggles may be necessary in some circumstances to prevent eye contact with dust. Workers should wash and change clothing following cleanup of a spill to prevent personal contamination.

**Environmental precautions:**
Avoid runoff into storm sewers, ditches, and waterways.

**Methods and materials for containment and cleaning up:**

**Methods for containment:**
Collect spillage and prevent from spreading by covering, diking, berming or other means. Minimize dust generation.

**Methods for cleanup:**
Control source of spillage if possible to do so safely. Restrict access to the area until completion of clean up. Contain spilled material immediately and control run-on and run-off. Clean up spilled material observing precautions listed in Section 8, Personal Protection and using methods that will minimize dust generation. Uncontaminated materials can be recovered for return to process. Contaminated materials should be placed in suitable labeled containers for later recovery or disposal. Waste material must be treated and disposed of in accordance with all local, regional, and national requirements.

SECTION 7 : HANDLING and STORAGE

**Precautions for safe handling:**

**Handling:**
No special handling procedures are required for this material. Avoid dust formation.

**Hygiene Practices:**
Wash hands with water as a precaution. Do not breathe dust.

**Conditions for safe storage, including any incompatibilities:**

**Storage:**
No special storage conditions required.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

**EXPOSURE GUIDELINES:**

**Portland Cement:**
- Guideline ACGIH: TLV-TWA: 1 mg/m³ (E,R)
- Guideline OSHA: PEL-TWA: 5 mg/m³ Respirable fraction (R)
- Guideline OSHA: PEL-TWA: 50 mppcf Total particulate/dust (T)
- Guideline OSHA: PEL-TWA: 15 mg/m³ Total particulate/dust (T)

**Plaster of Paris:**
- Guideline OSHA: PEL-TWA: 15 mg/m³ Total particulate/dust (T)
- Guideline OSHA: PEL-TWA: 5 mg/m³ Respirable fraction (R)

**Appropriate engineering controls:**
Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other.
Individual protection measures:

**Eye/Face Protection:** Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166. Close-fitting goggles may be necessary in some circumstances to prevent eye contact with dust.

**Skin Protection Description:** Coveralls or other work clothing, safety glasses, and gloves are recommended to prevent prolonged or repeated direct skin and eye contact.

**Hand Protection Description:** Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

**Respiratory Protection:** No personal respiratory protective equipment is normally required. When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators.

PPE Pictograms:

---

**SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES**

**PHYSICAL AND CHEMICAL PROPERTIES:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Fine powder</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Green</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>2.3</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>SLIGHT, 0.2% AT 40°C IN WATER</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Percent Volatile</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Lower Flammable/Explosive Limit</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Upper Flammable/Explosive Limit</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Auto Ignition Temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>VOC Content</strong></td>
<td>Not determined</td>
</tr>
</tbody>
</table>

---

**SECTION 10 : STABILITY and REACTIVITY**

**Chemical Stability:** None under normal use.

**Possibility of hazardous reactions:**

**Hazardous Polymerization:** Will not occur.

**Conditions To Avoid:** Dust dispersion in air.

**Incompatible Materials:** None during normal use.

---

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION:**

**Polyvinyl Alcohol:**

**Ingestion:** Oral - Rat LD50 - Lethal dose, 50 percent kill: >20 gm/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity) Behavioral - Muscle weakness]

Oral - Rat LD50 - Lethal dose, 50 percent kill: 23854 mg/kg [Behavioral - Muscle weakness Gastrointestinal - Hypermotility, diarrhea Liver - Other changes] (RTECS)

---

**SECTION 12 : ECOLOGICAL INFORMATION**
Ecotoxicity:  
No ecotoxicity data was found for the product.

Environmental Stability:  
No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:
Waste Disposal:  
Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:  
Not regulated as hazardous material for transportation.

DOT UN Number:  
Not regulated as hazardous material for transportation.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:
Canada WHMIS:  
Controlled - Class: D2B Toxic
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 the Controlled Products Regulations.

Polyvinyl Alcohol:
TSCA Inventory Status:  
Listed
Canada DSL:  
Listed

Ammonium Naphthalene Sulfonate:
TSCA Inventory Status:  
Listed
Canada DSL:  
Listed

Portland Cement:
TSCA Inventory Status:  
Listed
Canada DSL:  
Listed

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:
HMIS Health Hazard:  
1
HMIS Fire Hazard:  
0
HMIS Reactivity:  
1
HMIS Personal Protection:  
X

SDS Revision Date:  
May 25, 2015
SDS Format:  

SDS Author:  
Regulatory department

Copyright© 1996-2015 Actio Corporation. All Rights Reserved.