1. IDENTIFICATION

Product name: Slurry Mix #45070
50 lb Pail

Product type: Adhesive

Manufacturer/Registrant: Rainbow Technology Corporation
Contact: Larry Joe Steeley, Jr. (800) 637-6047
261 Cahaba Valley Pkwy
Pelham, AL 35124-1146

For emergencies, contact Chem-Tel: Phone: 1-800-225-3924

__________________________________________________________________________

2. Hazards Identification


Classification of the product

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr./Irrit.</td>
<td>2</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Eye Dam./Irrit.</td>
<td>1</td>
<td>Serious eye damage/eye irritation</td>
</tr>
<tr>
<td>STOT SE (irritating to)</td>
<td>3</td>
<td>Specific target organ toxicity — single exposure</td>
</tr>
<tr>
<td>respiratory system)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STOT RE (by inhalation)</td>
<td>1</td>
<td>Specific target organ toxicity — repeated exposure</td>
</tr>
</tbody>
</table>

Label elements
Signal Word: Danger

Hazard Statement:
H318 Causes serious eye damage.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H372 Causes damage to organs (Lung) through prolonged or repeated exposure.

Precautionary Statements (Prevention):
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust/gas/mist/vapours.
P202 Do not handle until all safety precautions have been read and understood.
P270 Do not eat, drink or smoke when using this product.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash before reuse.

Precautionary Statements (Storage):
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>&gt;= 25.0 - &lt; 75.0 %</td>
<td>crystalline silica</td>
</tr>
<tr>
<td>65997-15-1</td>
<td>&gt;= 15.0 - &lt; 50.0 %</td>
<td>Cement, portland, chemicals</td>
</tr>
<tr>
<td>7778-18-9</td>
<td>&gt;= 10.0 - &lt; 20.0 %</td>
<td>Calcium sulphate</td>
</tr>
</tbody>
</table>
4. First-Aid Measures

Description of first aid measures

General advice:
First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:
After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain medical attention.

If on skin:
After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons: water jet

Additional information:
Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.

**Special hazards arising from the substance or mixture**

Hazards during fire-fighting:
- carbon monoxide, carbon dioxide, harmful vapours
- Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. Product is not combustible or explosive.

**Advice for fire-fighters**

Protective equipment for fire-fighting:
Wear self-contained breathing apparatus and chemical-protective clothing.

**Further information:**
Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. The degree of risk is governed by the burning substance and the fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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### 6. Accidental release measures

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

Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

**Environmental precautions**

Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal.
For residues: Rinse with plenty of water. Avoid raising dust.

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### 7. Handling and Storage

**Precautions for safe handling**

Avoid dust formation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion: No special precautions necessary.

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

Segregate from metals. Segregate from acids. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

**Suitable materials for containers:** Paper/Fibreboard

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.
8. Exposure Controls/Personal Protection

**Components with occupational exposure limits**

- **Calcium oxide**
  - OSHA PEL: 5 mg/m³
  - TWA: 5 mg/m³
  - ACGIH TLV: 2 mg/m³

- **Iron oxide**
  - OSHA PEL: 10 mg/m³ fumes/smoke
  - TWA: 10 mg/m³ fumes/smoke
  - ACGIH TLV: TWA value 5 mg/m³ Respirable fraction

- **Magnesium oxide**
  - OSHA PEL: 15 mg/m³ Total particulate
  - TWA: 15 mg/m³ Total particulate
  - ACGIH TLV: TWA value 10 mg/m³ Inhalable fraction

- **Limestone**
  - OSHA PEL: 5 mg/m³ Respirable fraction
  - PEL: 15 mg/m³ Total dust
  - TWA: 15 mg/m³ Total dust
  - ACGIH TLV: TWA value 5 mg/m³ Respirable fraction

- **Calcium sulphate**
  - OSHA PEL: 5 mg/m³ Respirable fraction
  - PEL: 15 mg/m³ Total dust
  - TWA: 15 mg/m³ Total dust
  - ACGIH TLV: TWA value 5 mg/m³ Respirable fraction

- **Crystalline silica**
  - OSHA PEL: TWA value 2.4 millions of particles per cubic foot of air Respirable
  - The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.
  - TWA: 0.1 mg/m³ Respirable
  - The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.
  - TWA: 0.3 mg/m³ Total dust
  - The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.
  - ACGIH TLV: TWA value 0.025 mg/m³ Respirable fraction

- **Cement, Portland, chemicals**
  - OSHA PEL: PEL 15 mg/m³ Total dust
  - PEL: 5 mg/m³
  - Respirable fraction
  - ACGIH TLV: TWA value 1 mg/m³ Respirable fraction
  - The value is for particulate matter containing no asbestos and <1% crystalline silica.

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**Advice on system design:**

Provide local exhaust ventilation to maintain recommended P.E.L.
**Personal protective equipment**

**Respiratory protection:**
Breathing protection if dusts are formed.

**Hand protection:**
Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.

**Eye protection:**
Tightly fitting safety goggles (chemical goggles).

**Body protection:**
Body protection must be chosen based on level of activity and exposure.

**General safety and hygienemeasures:**
Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Contaminated equipment or clothing should be cleaned after each use or disposed of.

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**9. Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>powder</td>
</tr>
<tr>
<td>Odour</td>
<td>mild</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined due to potential health hazard by inhalation.</td>
</tr>
<tr>
<td>Colour</td>
<td>grey</td>
</tr>
<tr>
<td>pH value</td>
<td>13</td>
</tr>
<tr>
<td>Melting point</td>
<td>&gt; 2,000 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>No applicable information available. The substance/product is non-combustible.</td>
</tr>
<tr>
<td>Flammability</td>
<td>not determined</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.</td>
</tr>
<tr>
<td>Autoignition</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Bulk density</td>
<td>1.35 g/cm³</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No applicable information available.</td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water (logPow)</td>
<td>No applicable information available.</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
Based on its structural properties the product is not classified as oxidizing.

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
The product is stable if stored and handled as prescribed/indicated. Strong bases are formed on the addition of water.

Conditions to avoid
Avoid dust formation. Avoid humidity.

Incompatible Materials
strong bases, strong acids

Hazardous decomposition products
Decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

Oral
No applicable information available.

Inhalation
No applicable information available.
**Dermal**

Type of value: **ATE Value:** > 5,000 mg/kg

**Assessment other acute effects**
Assessment of STOT single:
Causes temporary irritation of the respiratory tract.

The product has not been tested. The statement has been derived from the properties of the individual components.

**Irritation / corrosion**
Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

**Sensitization**
Assessment of sensitization: There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from the properties of the individual components. Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

**Chronic Toxicity/Effects**

**Repeated dose toxicity**
Assessment of repeated dose toxicity: No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met. The product has not been tested. The statement has been derived from the properties of the individual components.

**Genetic toxicity**
Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

**Carcinogenicity**
Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

*Information on: crystalline silica*
Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given by inhalation in high doses, a carcinogenic effect was observed. The substance and its compounds in the form of respirable dusts/aerosols is classified by the German MAK commision as a category 1 carcinogen (substances that cause cancer to humans). A carcinogenic effect cannot safely be ruled out. The inhalation uptake of the alveolar fraction of the fine dust may cause damage to the lungs. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen. NTP listed carcinogen

**Reproductive toxicity**
Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

**Teratogenicity**
Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.
Experiences in humans
According to experience, the product is considered to be harmless to health if used in the correct manner.

Other Information
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

12. Ecological Information

Toxicity
Aquatic toxicity
Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.
The product gives rise to pH shifts. Based on available Data, the classification criteria are not met.

Persistence and degradability
Assessment biodegradation and elimination (H2O)
Inorganic product which cannot be eliminated from water by biological purification processes. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

Experience shows this product to be inert and non-degradable. Elimination information not applicable

Bioaccumulative potential
Assessment bioaccumulation potential
The product will not be readily bioavailable due to its consistency and insolubility in water.

Mobility in soil
Assessment transport between environmental compartments
The substance will not evaporate into the atmosphere from the water surface.
Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Additional information
Other ecotoxicological advice:
Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.
13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

Container disposal:
Completely emptied packagings can be given for recycling.

14. Transport Information

Land transport
USDOT
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO
Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released; restriction on use / listed

This product contains an alkali metal nitrite which is subject to the SNUR at 40 CFR 721.4740 which prohibits the use of this product in metalworking fluids containing amines. 40 CFR 721.4740

EPCRA 311/312 (Hazard categories):
Acute; Chronic

<table>
<thead>
<tr>
<th>CERCLA RQ</th>
<th>CAS Number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000 LBS</td>
<td>67-64-1; 71-36-3;</td>
<td>Acetone; n-butanol; acrylamide</td>
</tr>
<tr>
<td>79-06-1</td>
<td>1336-21-6; 100-</td>
<td>Ammonium hydroxide; ethylbenzene; Styrene; cyclohexane</td>
</tr>
<tr>
<td>1000 LBS</td>
<td>41-4; 100-42-5;</td>
<td></td>
</tr>
<tr>
<td>41-4; 100-42-5;</td>
<td>110-82-7</td>
<td></td>
</tr>
<tr>
<td>110-82-7</td>
<td>7632-00-0; 50-00-</td>
<td>sodium nitrite; Formaldehyde; Ethanol; 2- methylpropan-2-ol; dibutyl ether; butyl propionate</td>
</tr>
<tr>
<td>100 LBS</td>
<td>64-17-5; 75-65-</td>
<td></td>
</tr>
<tr>
<td>0; 142-96-1; 590-</td>
<td>0; 142-96-1; 590-01-2</td>
<td></td>
</tr>
</tbody>
</table>

State regulations
CA Prop. 65:
WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO
CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard codes:
Health: 2  Fire: 0  Reactivity: 0  Special:

HMIS III rating
Health: 2  Flammability: 0  Physical hazard: 0

16. Other Information

SDS Prepared by:
A.W. COOK ProductRegulations SDS
Prepared on: 2015/04/08

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