1 – IDENTIFICATION

PRODUCT IDENTIFIER:
Product Name: Si-Rex03 Silicone Resin Emulsion Paint (SREP)

OTHER MEANS OF IDENTIFICATION
SDS #: KLAAS-003

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE
Recommended Use: Viscous silicone resin emulsion protective color coating for concrete and masonry facades.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET
Distributor: Klaas Coatings (North America) LLC
PO Box 25122
Dallas, TX 75225-1122

EMERGENCY TELEPHONE NUMBER
Company Phone Number: (866) 317-3633
Emergency Telephone (24 hr): (866) 317-3633

2 – HAZARDS IDENTIFICATION

Appearance: Pigmented viscous liquid
Physical State: Liquid
Odor: Slight ammonia

CLASSIFICATION

<table>
<thead>
<tr>
<th>Germ cell mutagenicity</th>
<th>Category 1B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Category 1B</td>
</tr>
</tbody>
</table>

SIGNAL WORD
Danger.

HAZARD STATEMENT
May cause genetic defects.
May damage fertility or the unborn child.

SYMBOL PHRASES
Health hazard.

PRECAUTIONARY STATEMENTS - PREVENTION
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.

PRECAUTIONARY STATEMENTS - RESPONSE
If exposed or concerned: Get medical advice/attention.

PRECAUTIONARY STATEMENTS - STORAGE
Store locked up.

PRECAUTIONARY STATEMENTS - DISPOSAL
Dispose of contents/container to an approved waste disposal plant.

OTHER HAZARDS
Harmful to aquatic life with long lasting effects.

UNKNOWN ACUTE TOXICITY
21.06% of the mixture consists of ingredient(s) of unknown toxicity.
3 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>471-34-1</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Methyl-2-benzimidazole carbamate</td>
<td>10605-21-7</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is “proprietary” and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4 – FIRST AID MEASURES

**FIRST AID MEASURES**

**General Advice**
If exposed or concerned: Get medical advice/attention.

**Eye Contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

**Skin Contact**
Wash off immediately with soap and plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Inhalation**
Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.

**Ingestion**
Dilute with milk or water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**MOST IMPORTANT SYMPTOMS AND EFFECTS**

**Symptoms**
May cause skin and eye irritation. May cause irritation to the mucous membranes and upper respiratory tract. May cause gastrointestinal disturbance.

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

**Notes to Physician**
Treat symptomatically.

5 – FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA**
Foam. Carbon dioxide (CO2). Water spray (fog).

**Unsuitable Extinguishing Media**
Not determined.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**
Whilst no flash point, small quantities of flammable vapors may accumulate in the headspace of the container once storage exceeds 12 months.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers exposed to fire with water.

6 – ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

**Personal Precautions**
Use personal protective equipment as required.
Environmental Precautions
Do not flush into surface water or sanitary sewer system.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up
Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Advice on Safe Handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Avoid creating dust. Avoid breathing dust or fume. Avoid contact with skin and eyes. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Incompatible Materials
None known based on information supplied.

8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust</td>
<td>IDLH: 5000 mg/m³</td>
</tr>
<tr>
<td>Calcium Carbonate 471-34-1</td>
<td>-</td>
<td>-</td>
<td>TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust</td>
</tr>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m³</td>
<td>IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m³</td>
</tr>
<tr>
<td>Talc 14807-96-6</td>
<td>TWA: 2 mg/m³ particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction</td>
<td>(vacated) TWA: 2 mg/m³ respirable dust &lt;1% Crystalline silica, containing no Asbestos TWA: 20 mppcf if 1% Quartz or more, use Quartz limit</td>
<td>IDLH: 1000 mg/m³ TWA: 2 mg/m³ containing no Asbestos and &lt;1% Quartz respirable dust</td>
</tr>
<tr>
<td>Amorphous silica (glass) 7631-86-9</td>
<td>-</td>
<td>(vacated) TWA: 6 mg/m³ &lt;1% Crystalline silica TWA: 20 mppcf (80)/(4% SiO2) mg/m³ TWA</td>
<td>IDLH: 3000 mg/m³ TWA: 6 mg/m³</td>
</tr>
<tr>
<td>Kaolin 1332-58-7</td>
<td>TWA: 2 mg/m³ particulate matter containing no asbestos and &lt;1% crystalline silica, respirable fraction</td>
<td>TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction</td>
<td>TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust</td>
</tr>
</tbody>
</table>

APPROPRIATE ENGINEERING CONTROLS

Engineering Controls
Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.
INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection
Use safety glasses with unperforated side shields during transfer and application. During spray application, chemical goggles are advised.

Skin and Body Protection
Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection
When sanding or abrading the dried film, use a NIOSH approved dust/mist respirator for dust that may be released. When spraying, use a NIOSH approved dust/mist filter respirator. When spraying in enclosed areas, use a NIOSH approved cartridge respirator.

General Hygiene Considerations
Avoid contact with eyes and skin. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

9 – PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Pigmented viscous liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Color varies with specific pigmentation</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight ammonia</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

PROPERTY | VALUES | REMARKS | METHOD
---|---|---|---
PH | 8-10 | | |
Melting Point/Freezing Point | Not determined | | |
Boiling Point/Boiling Range | 100 °C / 212 °F | | |
Flash Point | Not applicable | | |
Evaporation Rate | Not determined | | |
Flammability (Solid, Gas) | n/a-liquid | | |
Upper Flammability Limits | Not determined | | |
Lower Flammability Limit | Not determined | | |
Vapor Pressure | n/a-water based | | |
Vapor Density | n/a | | |
Specific Gravity | 1.29-1.36 | | |
Water Solubility | Soluble in water | | |
Solubility in other solvents | Not determined | | |
Partition Coefficient | Not determined | | |
Auto-ignition Temperature | Not determined | | |
Decomposition Temperature | Not determined | | |
Kinematic Viscosity | Not determined | | |
Dynamic Viscosity | Not determined | | |
Explosive Properties | Not determined | | |
Oxidizing Properties | Not determined | | |
VOC Content (%) | 175 g/L / 1.5 lb/gal | | |
Density | 10.60 - 11.85 lb. per gal +/- 2.0% | | |

10 – STABILITY AND REACTIVITY

REACTIVITY
Not reactive under normal conditions.

CHEMICAL STABILITY
Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS
None under normal processing.

CONDITIONS TO AVOID
Contact with incompatible materials. Access to unauthorized persons.

INCOMPATIBLE MATERIALS
None known based on information supplied.
HAZARDOUS DECOMPOSITION PRODUCTS
None known based on information supplied.

11 – TOXICOLOGY INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

Product Information

Eye Contact  Avoid contact with eyes.

Skin Contact  Avoid contact with skin.

Inhalation  Avoid breathing vapors or mists.

Ingestion  Do not taste or swallow.

COMPONENT INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Calcium Carbonate 471-34-1</td>
<td>= 6450 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>= 7060 mg/kg (Rat)</td>
<td>-</td>
<td>=124.7 mg/L (Rat) 4h</td>
</tr>
<tr>
<td>1,2 Propanediol 57-55-6</td>
<td>= 20000 mg/kg (Rat)</td>
<td>= 20800 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Texanol ester alcohol 25265-77-4</td>
<td>= 3200 mg/kg (Rat)</td>
<td>&gt; 15200 mg/kg (Rat)</td>
<td>-</td>
</tr>
<tr>
<td>Sodium Hexametaphosphate 10124-56-8</td>
<td>= 6200 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Amorphous silica (glass) 7631-86-9</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt;2.2mg/L (Rat) 1h</td>
</tr>
<tr>
<td>Methyl-2-benzimidazole carbamate 10605-21-7</td>
<td>= 6400 mg/kg (Rat)</td>
<td>= 2g/kg (Rat)=8500mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

INFORMATION ON PHYSICAL, CHEMICAL AND TOXICOLOGICAL EFFECTS

Symptoms  Please see section 4 of this SDS for symptoms.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

Germ cell mutagenicity  May cause genetic defects.

Carcinogenicity  Titanium dioxide is a possible carcinogen when it appears as a respirable dust. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>Group 28</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Talc 14807-96-6</td>
<td>Group 3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
Group 3 IARC components are “not classifiable as human carcinogens”
NTP (National Toxicology Program)
Known - Known Carcinogen
SAFETY DATA SHEET

KLAAS-003 – Si-Rex03 Silicone Resin Emulsion Paint (SREP)

Revision Date 07-May-2015

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity

May damage fertility or the unborn child.

NUMERICAL MEASURES OF TOXICITY

Not determined

Unknown Acute Toxicity

21.06% of the mixture consists of ingredient(s) of unknown toxicity.

12 – ECOLOGICAL INFORMATION

ECOTOXICITY

Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td></td>
<td></td>
<td></td>
<td>9268 - 14221; 48 h Daphnia magna mg/L LC50 10800; 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2 Propanediol 57-55-6</td>
<td>9000: 96 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>91600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td>10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static</td>
<td></td>
</tr>
<tr>
<td>Talc 14807-96-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Texanol ester alcohol 25265-77-4</td>
<td>18.4: 72 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>30: 96 h Pimephales promelas mg/L LC50</td>
<td>95: 96 h Daphnia magna mg/L LC50</td>
<td></td>
</tr>
<tr>
<td>Amorphous silica (glass) 7631-86-9</td>
<td>440: 72 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>000: 96 h Brachydanio rerio g/L LC50 semi-static</td>
<td>7600: 48 h Ceriodaphnia dubia mg/L EC50</td>
<td></td>
</tr>
</tbody>
</table>

PERSISTENCE/DEGRADABILITY

Not determined.

BIOACCUMULATION

Not determined.

MOBILITY

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>-0.32</td>
</tr>
</tbody>
</table>

OTHER ADVERSE EFFECTS

Not determined
13 – DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA WASTE NUMBER

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl-2-benzimidazole carbamate 10605-21-7</td>
<td>U372</td>
<td>Included in waste streams: K156, K158</td>
<td></td>
<td>U372</td>
</tr>
</tbody>
</table>

CALIFORNIA HAZARDOUS WASTE STATUS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol 64-17-5</td>
<td>Toxic Ignitable</td>
</tr>
</tbody>
</table>

14 – TRANSPORT INFORMATION

NOTE
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
Not regulated

IATA
Not regulated

IMDG
Marine Pollutant This material may meet the definition of a marine pollutant

15 – REGULATORY INFORMATION

INTERNATIONAL INVENTORIES
Not determined.

US FEDERAL REGULATIONS

CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl-2-benzimidazole carbamate 10605-21-7</td>
<td>10 lb</td>
<td>RQ 10 lb final RQ</td>
<td>RQ 4.54 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 311/312 HAZARD CATEGORIES

Acute Health Hazard Yes
Chronic Health Hazard Yes

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

U.S. STATE REGULATIONS
CALIFORNIA PROPOSITION 65
This product contains the following Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide - 13463-67-7</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Ethyl Alcohol - 64-17-5</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>1,2 Propanediol - 57-55-6</td>
<td>Developmental</td>
</tr>
</tbody>
</table>

U.S. STATE RIGHT-TO-KNOW REGULATIONS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide - 13463-67-7</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethyl Alcohol - 64-17-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1,2 Propanediol - 57-55-6</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Talc - 14807-96-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Diatomaceous Earth - 68855-54-9</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Sodium Hexametaphosphate - 10124-56-8</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Amorphous silica (glass) - 7631-86-9</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Methyl-2-benzimidazole carbamate - 10605-21-7</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Kaolin - 1332-58-7</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

16 – OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Issue Date: 30-Sep-2007
Revision Date: 07-May-2015
Revision Note: New Format

DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet