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

Germ cell mutagenicity	Category 1B
Reproductive toxicity	Category 1B

SIGNAL WORD
Danger.

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

SYMBOL PHRASES
Health hazard.

PRECAUTIONERY 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.

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

PRECAUTIONERY STATEMENTS - STORAGE
Store locked up.

PRECAUTIONERY 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

Chemical Name	CAS No	Weight-%
Titanium dioxide	13463-67-7	Proprietary
Calcium Carbonate	471-34-1	Proprietary
Ethyl Alcohol	64-17-5	Proprietary
Talc	14807-96-6	Proprietary
Methyl-2-benzimidazole carbamate	10605-21-7	Proprietary

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m^3	TWA: 15 mg/m^3 total dust (vacated) TWA: 10 mg/m^3 total dust	IDLH: 5000 mg/m^3
Calcium Carbonate 471-34-1	-	-	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust
Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m^3 (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m^3	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m^3
Talc 14807-96-6	TWA: 2 mg/m^3 particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	(vacated) TWA: 2 mg/m^3 respirable dust <1% Crystalline silica, containing no Asbestos TWA: 20 mppcf if 1% Quartz or more, use Quartz limit	IDLH: 1000 mg/m^3 TWA: 2 mg/m^3 containing no Asbestos and <1% Quartz respirable dust
Amorphous silica (glass) 7631-86-9	-	(vacated) TWA: 6 mg/m^3 <1% Crystalline silica TWA: 20 mppcf : (80)/(% SiO2) mg/m^3 TWA	IDLH: 3000 mg/m^3 TWA: 6 mg/m^3
Kaolin 1332-58-7	TWA: 2 mg/m^3 particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	TWA: 15 mg/m^3 total dust TWA: 5 mg/m^3 respirable fraction (vacated) TWA: 10 mg/m^3 total dust (vacated) TWA: 5 mg/m^3 respirable fraction	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust

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

Physical State	Liquid		
Appearance	Pigmented viscous liquid	**Odor**	Slight ammonia
Color	Color varies with specific pigmentation	**Odor Threshold**	Not determined

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

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

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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide 13463-67-7		Group 2B		X
Ethyl Alcohol 64-17-5	A3	Group 1	Known	X
Talc 14807-96-6		Group 3		

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

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.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl Alcohol 64-17-5		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through		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
1,2 Propanediol 57-55-6	9000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 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		10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static
Talc 14807-96-6		100: 96 h Brachydanio rerio g/L LC50 semi-static		
Texanol ester alcohol 25265-77-4	18.4: 72 h Pseudokirchneriella subcapitata mg/L EC50	30: 96 h Pimephales promelas mg/L LC50		95: 96 h Daphnia magna mg/L LC50
Amorphous silica (glass) 7631-86-9	440: 72 h Pseudokirchneriella subcapitata mg/L EC50	000: 96 h Brachydanio rerio mg/L LC50 static		7600: 48 h Ceriodaphnia dubia mg/L EC50

PERSISTENCE/DEGRADABILITY
Not determined.

BIOACCUMULATION
Not determined.

MOBILITY

Chemical Name	Partition Coefficient
Ethyl Alcohol 64-17-5	-0.32

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

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl-2-benzimidazole carbamate 10605-21-7	U372	Included in waste streams: K156, K158		U372

CALIFORNIA HAZARDOUS WASTE STATUS

Chemical Name	California Hazardous Waste Status
Ethyl Alcohol 64-17-5	Toxic Ignitable

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

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methyl-2-benzimidazole carbamate 10605-21-7	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

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.

Chemical Name	California Hazardous Waste Status
Titanium dioxide - 13463-67-7	Carcinogen
Ethyl Alcohol - 64-17-5	Carcinogen Developmental

U.S. STATE RIGHT-TO-KNOW REGULATIONS

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

16 – OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	Not determined	Not determined	Not determined	Not determined

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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