SAFETY DATA SHEET

Diamond Reactive Sealer

Use on exterior glass and painted surfaces

Identity: DSS Reactive **Date Prepared: March 19, 2018**

SECTION 1

PRODUCT NAME: Diamond Seal Systems Reactive
PRODUCT CLASS: Surface Sealer

Manufacturer's name: Micromed Diamond Seal Systems, LLC
1807 Carnegie Ave.
Santa Ana, CA 92705
Website: www.diamondsealsystems.com
Email: Jon@micromedus.com
Telephone Number for Information: (9:00 am to 4:40 PM Monday-Friday) 877-234-9452
24 Hour Emergency Number – Chemtrac - …….800-424-9300
Product Code: DSS-RE
Recommended restrictions: None known **Date prepared March 19, 2018**

SECTION 2—HAZARDS IDENTIFICATION

United States (US) According to OSHA 29 CFR 1910.1200 HCS Classification of the substance or mixture. OSHA HCS 2012

Emergency overview: Causes Eye damage and Skin irritation, Irritating to Gastrointestinal tract.
Effects of Overexposure:

Eye Contact: H318 Liquid, aerosols, and vapors of this product are irritating and can cause pain, Tearing and reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.
Skin Contact: H315 May cause moderate irritation with prolonged or repeated contact
Inhalation: H335 May be irritating to the respiratory tract
Ingestion: H302 Harmful if swallowed. May be irritating to mouth, throat, and stomach. May cause discomfort, nausea, vomiting or diarrhea, if swallowed.

Chronic Hazards: Not listed as a carcinogen by OSHA, IARC, and NTP TARGET ORGANS: Skin, eyes, gastrointestinal respiratory system.

Precautionary statements:	P103 Read label before use P102 Keep out of reach of children
Prevention	P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection P264 Wash hands thoroughly after handling P270 Do not eat, drink, or smoke when using this product P271 Use only outdoors or in a well-ventilated area
Response	P310 immediately call a doctor or a POISON CENTER P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel Unwell. P330 Rinse Mouth P302+P352 IF ON SKIN: Wash with plenty of water P332+P313 If skin irritation occurs, get medical advice/attention P304+P340 IF INHALED: Remove victim to fresh air and place in a comfortable position for breathing P305+P351+P338 IF IN EYES: Rinse cautiously with water for several Minutes. Remove contact lenses if present and easy to do. Continue rinsing P362+P364 take off contaminated clothing and wash it before reuse.
Storage and Disposal	P403+P233 Store in a well-ventilated place. Keep container tightly closed P405 Store Locked Up P501 Dispose of contents/Container in accordance with local/regional/national/international regulation.
Other Hazards	Under US Regulations (29CFR 1910.1200 Hazard Communication Standard) This product is considered hazardous.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	% Weight	Oral LD50/LC50	Classifications according to Regulation
Potassium Silicate Liquid	1312-76-1	1% to 2.5%	>5,000 MG/Kg	H 318: Eye Damage 1 H-315: Skin Irritation 2 H335: STOT SE 3
Potassium Methyl Siliconate	31795-24-1	.07 to .65%	>2,000 mg/kg	H314: Skin Burns and Eye Damage
Titanium Dioxide	13463-67-7	<0.01%	>10g/kg	Skin Irritation, 2, H317
Water	H2O	97.8 to 98.34%	N/A	None

All above are classified under OSHA HCS 2012
Comments: NDA
There are no additional ingredients present which, with the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or to the environment, and hence require reporting in this section.

Exposure Limits

SR#	TLV-TWA	TLV-STEL	OSHA PEL-TWA	PEL-CEILING	COMPANY TLV-TWA	SKIN
1	N.E.	N.E.	N.E.	N.E.	N.E.	NO

Primary routs of entry: 1. Skin contact, 2. Skin absorption 3. Inhalation 4. Ingestion 5. Eye contact

SECTION 4 – FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately

Skin Contact: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Refer to Section 11 – Toxicological Information.

Notes to physicians: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: N.D. **Lower exposure limit:** N. D. **Upper Exposure Limit:** N.D.
Autoignition Temperature: N. D.
Extinguishing Media: 1. Carbon dioxide, 2. Dry Chemical, 3. Water Fog
Unsuitable Extinguishing Media: Avoid the use of streaming water, as this may spread the fire.
Unusual fire and explosion hazards: Hazardous decomposition products include flammable hydrogen glass.
Hazardous combustible products: None Known
Special Firefighting procedures: As in any fire, wear self-contained breathing apparatus pressure – demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Noncombustible material, use appropriate media for surrounding fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapors. Ensure adequate ventilation.

Steps to be taken in case material is released or spilled: Absorb spill with inert material (e.g. dry sand, earth, vermiculite or some other absorbent material) then place in a suitable chemical waste container. Use only non-sparking tools. Use vacuum equipment with HEPA filters or wet sweeping/dust suppressant if sweeping is required. Flush area with water. Follow all governmental regulations. Evacuate area of unprotected personnel. Eliminate all sources of ignition. Provide adequate ventilation. Neutralize spill. Use a week base such as soda ash, for acid spills and a weak acid such as citric acid for basic spills. In the event of a major spill prevent spillage from entering drains, rivers, lakes or oceans. Avoid runoff to waterways and sewers.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapors. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.
Handling: Wash thoroughly after handling. Do not get into eyes, on skin or on clothing. Wear safety glasses.
Storage: Keep container closed when not in use. Do not store near incompatibles. Do not store in aluminum, fiberglass, copper, brass, zinc, or galvanized containers. Store in a cool, dry and well ventilated area. Storage temperatures 2 – 55 degrees Celsius.
Avoid contact with acids.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

	ACGIH	Canada Ontario	Canada Quebec	NIOSH	OSHA
Titanium Dioxide 13463-67-7:	10mg/m3	10 mg/m3	10 mg/m3	5,000 mg/m3	15 mg/m3 TWA

Exposure standards: The product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace.
Engineering controls: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Respiratory protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Skin protection: Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles and a face shield. Nitrile rubber gloves may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection.
Eye Protection: No specific eye protection needed.
Other protective equipment: Where splashing is possible, full chemically resistant protective clothing (eg Acid suit) and boots are required. An eyewash and safety shower should be present in the immediate area when handling this product.
Hygiene practices: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all SDS /Label precautions even after container is emptied because these may retain product residues. Avoid contact with eyes, skin and clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling range**:**	N. D.	Freeze Point:	N. D.
Vapor Density:	heavier than air	Vapor pressure:	N. D.
Odor:	N. D.	Specific Gravity:	1.30
Odor Threshold:	N. D.	pH@ 100%	11
Appearance	Slightly Hazy liquid	Physical State	Liquid
Evaporation Rate	Slower than butyl Acetate	Viscosity:	N. D.
Solubility in Water	Soluble	Coefficient of water/oil distribution:	N. D.

SECTION 10—STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical Stability: Stable at ambient temperature and under normal conditions of use.
Conditions to avoid: None known
Incompatible materials: Strong acids, aluminum, fiberglass, copper, brass, zinc
Hazardous Decomposition products: flammable hydrogen gas
Hazardous Polymerization: Will not occur under normal conditions
Stability: this product is stable under normal storage conditions.

SECTION 11—TOXICALOGICAL PROPERTIES

Component Name	**CAS**	**Data**
Silicic acid, potassium salt	1312-76-1	Oral LD50 = 130 mg/kg (Rat)
Titanium dioxide	12463-67-7	Oral, Rat: LD50 > 1 g/kg

GHS Properties	**Classification**
Acute Toxicity	Classification criteria not met
Aspiration hazard	Classification criteria not met
Carcinogenicity	No Data Available
Germ Cell mutagenicity	No data available
Respiratory sensitization	May cause respiratory irritation
Serious Eye Damage/irritation	Causes moderate to serious eye damage.
Skin corrosion/Irritation	May cause skin irritation
Skin sensitization	May cause skin irritation
Toxicity for reproduction	No data available

Routes of entry/exposure: Inhalation, Skin, Eye, Ingestion
Potential health effects:

Inhalation: Acute (Immediate) May cause irritation to mouth, throat and respiratory tract.
Chronic (Delayed) May cause delayed lung damage
Skin: Acute (Immediate) Causes skin irritation. Chronic (Delayed) Repeated and prolonged exposure may cause dermatitis
Eye: Acute – Causes eye irritation, pain, tearing, reddening, and swelling and serious eye damage
Chronic (Delayed) No data available
Ingestion: Acute (Immediate) Harmful if swallowed. May cause gastrointestinal irritation.
Chronic (Delayed) No data available

SECTION 12—ECOLOGICAL INFORMATION

No product or component ecological information is available.

SECTION 13—DISPOSAL CONSIDERATIONS

Disposal method: Follow all Federal, state and local regulations. If approved, flush to sewer with large quantities of water.

SECTION 14—TRANSPORTATION INFORMATION

Not D.O.T. Regulated

SECTION 15—REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
National and local regulations must be observed.
For information on labelling please refer to section 2 of this document.

State Right To Know

Component	CAS	MA	NJ	PA	CA
Silicic acid, potassium, and salt	1312-761-1	No	No	No	No
Titanium oxide (TiO2)	13463-67-7	No	Yes	Yes	Yes

Component	CAS	Canada DSL	Canada NDSL	TSCA
Silicic acid, potassium salt	1312-76-1	Yes	No	Yes
Titanium oxide (TiO2)	13463-67-7	Yes	No	No

Australian Inventory of Chemical Substances:

Substance	CAS
Silicic acid, potassium salt	1312-76-1
Titanium oxide (TiO2)	13463-67-7

Details of international registration status
Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea) ECL (Existing Chemicals List):
This product is listed in, or complies with, the substance inventory.

Japan ENCS (Handbook of Existing and New Chemical Substances):
This product is listed in, or complies with, the substance inventory.

Australia AICS (Australian Inventory of Chemical Substances):
This product is listed in, or complies with, the substance inventory.

People's Republic of China ECSC (Inventory of Existing Chemical Substances in China):
This product is listed in, or complies with, the substance inventory.

Canada DSL (Domestic Substance List):
This product is listed in, or complies with, the substance inventory.

Philippines PICCS (Philippine Inventory of Chemicals and Chemical Substances):
This product is listed in, or complies with, the substance inventory.

USA TSCA (Toxic Substance Control Act Chemical Substance Inventory):
This product is listed in, or complies with, the substance inventory.

European Economic Area (EEA) REACH (Regulation (EC))
General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

Chemical Name CAS Number
No information is available.

International Regulations as follows:
Canadian WHMIS: This SDS has been prepared in compliance with Controlled product Regulations except for use of the 16 headings.
Canadian WHMIS Class: No information available.
HMIS ratings: Health: 2 Flammability: 0 Reactivity: 0

Previous SDS revision date: 3-22-11
Reason for revision: Reformat and update product name
Revised by: Bret Aiken

Legend: NA – Not Applicable N.E. Not established N.D. Not Determined

SECTION 16 – OTHER INFORMATION

The information contained on this SDS has been evaluated and should be accurate, however it is the responsibility of the user to comply with all Federal, State and local laws and regulations.
The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to v endee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.