

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier:

Trade Name : **LiquiBlock™ WHS 2**

1.2 Recommended use of the chemical and restrictions on use

Recommended Use : Industrial Use

Non-recommended Use : None known

1.3 Details of the supplier of the safety data sheet

Company : **Emerging Technologies, inc.**
402 Edwardia Drive
Greensboro, NC 27409
USA

Telephone : (336)-851-9097

FAX: : (336)-851-2153

Email : info@thesuperabsorbentsource.com

1.4 Emergency telephone number

EMERGENCY TELEPHONE: : CHEMTREC 1-800-424-9300
(24 hours a day, 7 days a week) : COMPANY CODE: EMTE

NON-EMERGENCY TELEPHONE: : (336)-851-9097

2. Hazard Identification

2.1 Classification of the substance or mixture

This product is not hazardous as defined in 29 CFR 1910.1200

2.2 Label elements

N/A

2.3 Other Hazards

None known

3. Composition/Information on Ingredients

3.1 Substances

N/A

3.2 Mixtures

Chemical Name	Content	CAS number
2-Propenoic acid, homopolymer, sodium salt, neutralized, cross-linked	95 - 100	9003-04-7
Silicon dioxide	0 - 0.9	7631-86-9
Water	0 – 5	7732-18-5

4. First Aid Measures

4.1 Description of first aid measures

Eyes	:	Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Skin	:	Wash with plenty of soap and water.
Ingestion	:	Do not induce vomiting. Remove material from inside mouth. Rinse with water and immediately get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No acute or chronic hazards or effects are known

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing Media

Suitable media	:	Chemical powder extinguisher, foam fire extinguishing media, carbon dioxide, sand, atomized water.
Unsuitable media	:	Full water jet.

5.2 Hazardous Combustion Products

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide. Carbon monoxide can displace oxygen and act as an asphyxiant in poorly ventilated spaces.

5.3 Fire Fighting Instructions

Keep upwind of fire. Wear full fire-fighting gear and wear self-contained breathing apparatus. Cool container with water spray. Fight fire with normal precautions from a reasonable distance.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Promptly remove possible ignition sources from the vicinity. Use PPE in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 Environmental precautions

Do not flush to sewer or allow to enter waterways. Prevent scattering and spread by covering with antistatic sheet.

6.3 Methods and material for containment and cleaning up

Containment Procedures

No specific procedures.

Clean up procedures

Recover the scattered material into a vacant container by sweeping away or vacuuming so that the dust is not scattered. If wetted, it become a jelly which is very slippery. Completely remove it especially when it is scattered on a road. Scattering calcium chloride powder will make it easily removable by shrinkage.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Ensure adequate ventilation. The dust can be charged with static electricity. Suppress generation and accumulation of dust as much as possible. Take countermeasures for static electricity removal. Keep away from heat/sparks/ open flames/hot surfaces. No smoking.
Hygiene	:	Wash hands before breaks and after work. Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately.
General protective measures	:	Do not inhale dust/fumes/aerosols. Avoid contact with eyes and skin.

7.2 Conditions for safe storage, including any incompatibles

Prevention of fire and explosion

Avoid contact with any potential sources of ignition.

Storage

The product is to be stored in a dry, well ventilated area with temperatures lower than 40°C, away from direct sunlight and heat sources to avoid product degradation or combustion.

8. Exposure controls/personal protection

8.1 Control parameters

This product is not regulated as a hazardous material and it contains no substances with occupational exposure limit values (US).

8.2 Exposure controls

Engineering controls

N/A

Personal protective equipment

Obey reasonable safety precautions and practice good housekeeping. Wash thoroughly after handling.

Eye protection	:	Protective glasses, goggle, protective face shield.
Hand protection	:	Protective gloves (Antistatic are desirable)
Body protection	:	Protective clothes, protective shoes (Antistatic are desirable)
Respiratory protection	:	Dust mask.

9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Physical State:	:	Solid
Form	:	Powder
Appearance	:	White
Odor	:	Odorless
Odor Threshold	:	No data available
pH	:	5.6 – 6.6
Melting Point	:	None
Boiling Point	:	None
Flash Point	:	No data available
Evaporation Rate	:	No data available
Flammability	:	Burning rate test (UN recommendation) Does not continue to burn. (data of similar product)
Upper Explosion/ Ignition Limit	:	No data available
Lower Explosion Limit	:	No data available
Vapor Pressure	:	No data available
Relative Vapor Density	:	No data available
Relative Density	:	No data available
Specific Gravity	:	0.6 – 0.8 g/cm ³
Solubility	:	No data available
Water Solubility	:	Practically insoluble
Partition Coefficient (n-octanol/water)	:	No data available
Autoignition Temperature	:	No data available
Thermal Decomposition	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available

9.2 Other information

None

10. Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reaction

Risk of dust explosions.

10.4 Conditions to avoid

When heated to decomposition, product can form alkaline ash.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information**11.1 Information on toxicological effects****Chemical Product**

Acute toxicity (oral)	:	LD50 > 2000 mg/kg (rat)
Acute toxicity (inhalation)	:	No data available
Acute toxicity (dermal)	:	No data available
Irritation/corrosion of the skin	:	Primary skin irritation test (rabbit): Not an irritant (data from similar product)
Serious eye damage/ eye irritation	:	(rabbit) Not an irritant (based on the classification criteria of Commission Directive 2004/73/EC of April 29, 2004 (data of similar product)
Respiratory sensitization	:	No data available
Skin sensitization	:	(guinea pig) None (data of similar product)
Repeated dose toxicity	:	No data available
Genotoxicity in vitro	:	No data available
Reproductive cell mutagenicity	:	Ames Test: Negative (data of similar product)
Reprotoxicity/Development/ Teratogenicity	:	No data available

Carcinogenicity	:	IARC: Not listed EU: Not listed Japan: Not listed OSHA: Not listed NTP: Not listed ACGIH: Not listed
Specific Target Organ Toxicity Single exposure	:	No data available
Specific Target Organ Toxicity-Repeated exposure	:	Inhalation test (2 years) of respiratory dust of sodium polyacrylate (10µ or smaller) in rats: At high dose (0.8 mg/m ³): local chronic inflammation of lung tissue and accompanying tumor were observed in some test animals. At mid dose (0.2 mg/m ³): local chronic inflammation was observed but tumor was not observed. At low dose (0.05 mg/m ³): no hazardous effects were observed. (data of similar product) <i>Safe Handling of Polyacrylate Dusts, December 2002; Institute for Polyacrylate Absorbents, inc., and European Disposable and Nonwovens Association</i>
Aspiration hazard	:	No data available.

Silicon Dioxide

Acute Toxicity (oral)	:	LD50 > 5000 mg/kg (rat)
Acute Toxicity (dermal)	:	LD50 > 2000 mg/kg (rabbit)
Acute Toxicity (inhalation)	:	LC50 > 2.2 mg/L (rat)
Carcinogenicity	:	IARC = 3 (Not classifiable as to its carcinogenicity to humans.)

12. Ecological information

12.1 Toxicity

Aquatoxicity, fish	:	LC50 (96hr) > 100mg/L (Oryzias latipes) OECD Test # 203 Data of similar product
Aquatoxicity, crustacea	:	EC50 (48hr) > 100 mg/L (Daphnia magna) OECD test # 202 Data of similar product
Aquatoxicity, algae/aquatic plants	:	ErC50 (72hr) > 100 mg/L (Green algae) OECD test # 201 Data of similar product

12.2 Persistence and degradability

Photodegradation	:	No data available
Biological degradability	:	No data available

12.3 Bioaccumulative potential

Bioaccumulation : Consider to be less Bioaccumulative. (number average molecular weight > 1000)

12.4 Mobility in soil

Environmental distribution : No data available

12.5 Results of Persistent, Bioaccumulative and Toxic (PBT) and Very Persistent and Very Bioaccumulative (vPvB) assessment

PBT and vPvB assessment : No data available

12.6 Other adverse effects

General Information : No data available

12.7 Additional information

Additional information : N/A

13. Disposal considerations

13.1 Waste treatment methods

Product : When waste materials and waste water are to be treated, collect them into specified containers and entrust the disposal to a disposal contractor having an industrial waste disposal contractor permit.

Contaminated packaging : Do not use the used containers for other purposes like filling other substances. Be sure to dispose of them after treating the contents according to the above description. In case of recycling the container, return the container as it is after fitting a stopper without filling anything into it.

General : N/A

14. Transport information

Not dangerous according to transport regulations

14.1 UN number : None

14.2 UN proper shipping name : None

14.3 Transport hazard class(es) : None

14.4 Packing group : None

14.5 Environmental hazards : None

14.6 Special precautions for user : None

15. Regulatory information

US Federal Regulations:

CERCLA/SARA	:	N/A
OSHA	:	N/A
TSCA	:	Listed as CAS Nos. 9033-79-8; 9003-04-7; 7631-86-9

European Regulations:

EU REACH (1907/2006)	:	N/A
EU (EINECS)	:	Not listed (All monomers and silicon dioxide are listed)

International Regulations:

Japan (ENCS)	:	Listed
Korea (KECL)	:	Listed
Australia (AICS)	:	Listed
Canada (DSL)	:	Listed
China (IECSC)	:	Listed
New Zealand (NZIoC)	:	Listed
Philippines	:	Listed

16. Other information

List of references

Other information	:	Comply with national laws regulating employee instruction
Revision date	:	02/11/2019
Supersedes revision dated	:	N/A
Reason for revision	:	New SDS
Key	:	N/A – Not Applicable

IMPORTANT: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the time of publishing. The information given is designed only as a guidance for safe handling, use processing, storage, transportation, disposal and release and is not 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.

Legend

29 CFR 1910.1200	:	Occupational Safety and Health Standards of the US Government
CAS	:	Chemical Abstract Services
CERCLA	:	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	:	Code of Federal Regulations
DSL	:	(Canada) Domestic Substances List
HMIS	:	Hazardous Materials Identification System
MSHA	:	Mine Safety and Health Association
NFPA	:	National Fire Prevention Association
NIOSH	:	National Institute for Occupational Safety and Health
OEL	:	Occupational Exposure Limit
OSHA	:	Occupational Safety and Health Administration
PBT	:	Persistent, Bioaccumulative and Toxic
REACH	:	Regulation for Registration, Evaluation, Authorization and Restriction of Chemicals: EU regulation 1907/2006
SARA	:	Superfund Amendments and Reauthorization Act
SBS	:	Styrene-Butadiene-Styrene
STOT	:	Specific Target Organ Toxicity
SVHC	:	Substances of Very High Concern
TSCA	:	Toxic Substances Control Act
UN	:	United Nations
vPvB	:	Very Persistent and Very Bioaccumulative
WHMIS	:	(Canada) Workplace Hazardous Materials Information System