SAFETY DATA SHEET

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

1.1 Product Identifier:

Trade Name	:	***Golden Enviro Super Solidifier***
Chemical Name	:	Sodium polyacrylate, crosslinked
CAS Number	:	9003-04-7
Chemical Name	:	Volcanic Rock
CAS Number	:	93763-70

1.2 Recommended use of the chemical and restrictions on use

Recommended Use	:	Thermoplastic elastomer for advanced materials, adhesives, sealants & coatings, paving & roofing
Non-recommended Use	:	None known

1.3 Details of the supplier of the safety data sheet

Company	:	**Mill Chem Manufacturing Inc.** 650 Basset Drive Thomasville, NC 27360 USA
Telephone	:	(866)-216-1162
FAX:	:	(336)-889-6430
Email	:	info@millchem.com

1.4 Emergency telephone number

EMERGENCY TELEPHONE: 24 hours a day, 7 days a week			NON-EMERGENCY TELEPHONE:
CHEMTREC	1-800-424-9300	COMPANY CODE: EMTE	(336)-851-9097

2. Hazard Identification

2.1 Classification of the substance or mixture

Not classified

2.2 Label elements

None

2.3 Other Hazards

None known

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3. Composition/Information on Ingredients

3.1 Mixture

Classification according to regulation 29CFR 1910.1200

Substance name	:	Sodium polyacrylate, crosslinked
CAS number	:	9003-04-7
Substance name	:	Volcanic Rock
CAS number	:	93763-70
Synonyms	:	Styrene/Butadiene Copolymer, 1 -3-Butadiene/Ethenylbenzene Copolymer, Hydrogenated Styrene/Butadiene Copolymer, Styrene-butadiene Copolymer

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4. First Aid Measures

4.1 Description of first aid measures

Eyes	:	Rinse eyes with water. If contact with molten product, immediately flush with cool water. Seek medical treatment.
Skin	:	Wash hands. If contact with molten product, immediately flush with cool water. Do not pull solidified product off skin. Seek medical treatment.
Ingestion	:	Do not induce vomiting. Get medical advice/attention if you feel unwell.
Inhalation	:	Supply fresh air. Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	Long term skin contact could cause skin dryness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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5. Fire-fighting measures

5.1 Extinguishing Media

Suitable media	:	Carbon Dioxide, powder or water spray. For Large fires use foam, water spray and call for fire-fighting assistance.
Unsuitable media	:	Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon Dioxide, Carbon Monoxide.

Explosion Hazard

Static charge buildup can be a potential fire hazard when used in the presence of volatile, flammable vapors or in high airborne dust concentrations.

Reactivity

Non-reactive.

5.3 Fire Fighting Instructions

Firefighters should wear full protective clothing including self-contained breathing apparatus.

Do not inhale explosion and /or combustion gases.

Keep container cool with water.

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6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment; avoid contact with skin and eyes.

Avoid dust generation; prohibit inhalation of dust; ensure proper ventilation.

Keep away from ignition sources.

Use caution after product contacts water as extremely slippery conditions will result.

6.2 Environmental precautions

Prevent entry to sewers and public waters.

6.3 Methods and material for containment and cleaning up

Containment Procedures/Clean up procedures

Shovel, or sweep up or use industrial vacuum cleaner. Product is non-hazardous waste. Proper disposal should be evaluated based on local regulations/legislation or directives.

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7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Prevent generation of dust. If necessary, wear a dust mask. Use local exhaust above processing areas. Take precautionary measures against static discharge. Earth/Ground processing equipment. Product has a tendency to accumulate static charge during transport, handling and processing. Considering the risks of electrostatic discharges, handling the products in potentially flammable atmospheres should be evaluated. Suitable precautions should be taken at all times, in particular when emptying bags or other packaging. Reducing the velocity of transport will reduce charging. Static charge buildup can be a potential fire hazard when used in the presence of volatile or flammable mixtures. Keep away from ignition sources. If product is processed into smaller particles, explosive hazardous conditions must be evaluated. When processing, maintain a fire watch if material reaches 280°C (536°F). Operating below these temperatures does not guarantee the absence of product degradation. The temperatures listed are indicated only for safety reasons (risk of fire and product degradation) and are not recommended for processing. Degradation of the polymer will start at lower temperatures depending on the specific processing conditions.
Hygiene	:	Wash hands before breaks and after work. Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately.

7.2 Conditions for safe storage, including any incompatibles

Do not store outside. Keep container dry. Keep in a cool, well-ventilated place. Products contain an antioxidant to aide in stabilizing the polymer over its recommended use and storage conditions. Exposure to direct sunlight or elevated temperatures over prolonged periods of time consumes the antioxidant at an increased rate and may lead to self-heating. Do not store with alkalis, oxidizers or acids. Avoid storage under pressure or at elevated temperatures to minimize particulate clustering or cold flow for products in bale. Do not stack Flexible Intermediate Bulk Containers (FIBCs) or palletized bags.

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) however, nuisance dust, if generated: OSHA TWA (8 hours) 10 mg/m3

8.2 Exposure controls

Engineering controls

Use local exhaust ventilation during processing. When transferring products, earth/ground all subsequent equipment to minimize charges that may develop.

Personal protective equipment

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

Eye protection		:	Safety glasses with side-shields.
Hand protection		:	Cloth gloves. Use heat protective gloves when handling hot, molten product.
Body protection		:	Protective clothing
Respiratory protection		:	During handling: if dust is generated, a particulate pre-filter is recommended and for high airborne dust concentrations, a cartridge designed for nuisance dust is recommended. During high temperature processing: use local exhaust ventilation when available.

9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Physical State:	:	Solid
Appearance	:	White Granular powder
Color	:	Clear; White
Odor	:	None
Odor Threshold	:	No data available
pH	:	5.5 – 6.5 (1% in water)
Relative Evaporation Rate	:	< 1.0
Melting Point	:	➢ 390 F
Freezing Point	:	Not determined
Boiling Point	:	Not applicable
Flash Point	:	Not applicable
Autoignition Temperature	:	Not measured
Thermal Decomposition	:	Not Determined
Flammability (solid, gas)	:	Not a flammable solid
Vapor Pressure	:	Not applicable
Relative Vapor Density @ 20°C	:	Not applicable
Relative Density	:	Typically between 0.88 – 0.95 @ 20°C
Vapor Density	:	Not Applicable
Solubility	:	Insoluble in water
Partition Coefficient (n-octanol/water)	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable
Explosive Properties	:	No data available
Explosive Limits	:	Not determined
Oxidizing Properties	:	No data available

10. Stability and reactivity

NFPA Ratings	:	Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard

10.1 Reactivity

Non-reactive

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reaction

Risk of self-heating and self-ignition under long term exposure to high temperatures: Refer to Section 7.2.

10.4 Conditions to avoid

Avoid prolonged exposure to heat or UV light since this may affect product properties. Product will burn when exposed to continuous sources of ignition.

10.5 Incompatible materials

Avoid contact with strong acids, alkalis and oxidizing agents.

10.6 Hazardous decomposition products

Hazardous vapors from heated product are not expected to be generated under normal processing temperatures and conditions. No hazardous decomposition under ambient temperatures. Although highly dependent on temperature and environmental conditions, a variety of thermal decomposition products may be present if the product is over heated, is smoldering or catches fire. Typical decomposition products are ultimately oxides of carbon.

11. Toxicological information

11.1 Information on toxicological effects

USP Systemic Toxicity Study in Mice – Extract	:	No mortality or evidence of systemic toxicity from extracts.
USP Intracutaneous Study in Rabbits - Extract	:	No evidence of significant irritation from the extracts injected intracutaneously
USP Muscle Implantation Study in Rabbits -7 day	:	No evidence of irritation or toxicity in accordance with USP, General Chapter 88, Biological Reactivity Test. Macroscopic reactions insignificant.
Cytotoxicity Study using the Colony Assay in Chinese Hamster Lung Cells (V79)	:	Test article is not cytotoxic

In Vitro Hemolysis Study in Red Blood Cells, Japanese MHLW	:	Test article is not cytotoxic
Skin Corrosion / Irritation	:	Not classified (no data available) pH not applicable (insoluble)
Serious eye damage / irritation	:	Not classified (no data available) pH not applicable (insoluble)
Respiratory or skin sensitization	:	Not classified This product does not cause skin sensitization
Germ cell mutagenicity	:	Not classified (*In Vitro* Bacterial Mutagenicity Study in E.Coli and S.Typhimurium from extract. Bacterial strains E.Coli WP2, WP2uvrA, CM 891 and WP2 uvrA/R46 and S. Typhimurium TA1535, 1537, 1538, TA98 and TA100. Both strains tested with and without liver enzymes. CONCLUSION: No mutagenic effects)
Carcinogenicity	:	Not classified (No data available)
IARC group Reproductive toxicity	:	3 – Not classifiable Not classified
Specific target organ toxicity (single exposure)	:	Not classified (No data available)
Specific target organ toxicity (repeated exposure)	:	Not classified (No data available)
Aspiration hazard	:	Not classified (Not possible due to product's physical form)

12. Ecological information

12.1 Toxicity

Aquatoxicity, fish	:	LC50 fish 1 >1000 ppm Acute 96-hour water absorbing fraction (WAF) performed on Rainbow Trout
LOEC (chronic)	:	No data available

12.2 Persistence and degradability

Photodegradation	:	Product is inert and non-biodegradable
Biological degradability	:	Product is inert and non-biodegradable

12.3 Bioaccumulative potential

Bioaccumulation	:	Not expected to bioaccumulate; product is not soluble in water and not biodegradable.

12.4 Mobility in soil

Environmental distribution	:	Not mobile; remains on surface of soil.

13. Disposal considerations

13.1 Waste treatment methods

Product	:	Recover or recycle if possible. Incinerate or consult a licensed landfill provider.
Contaminated packaging	:	Remove all packaging for recycling or disposal based on local regulations.
General	:	Size and quantity released may interfere with sewage treatment systems.

14. Transport information

Not regulated for transport

14.1	**Special transport precautions**	:	None
14.2	**ADR**	:	No additional information available
14.3	**Transport by Sea**	:	No additional information available
14.4	**Air Transport**	:	No additional information available

15. Regulatory Information

15.1 US Federal Regulations

RQ (Reportable quantity, section 304 of EPA's List of Lists)	:	Not regulated
SARA Section 302 Threshold Planning Quantity (TPQ)	:	Not regulated
SARA Section 311/312 Hazard Classes	:	Not regulated
SARA Section 313 - Emission Reporting	:	Not regulated
Resource Conservation and Recovery Act - RCRA (40 CFR 261):	:	Not regulated
Emergency Planning and Community Right-to-Know Act (EPCRA)	:	Not regulated
Comprehensive Environmental Response, Compensation and Liability Act (CERCLA/Superfund):	:	Not regulated

15.2 International Regulations

This product has been classified in accordance with the hazard criteria of the controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada	:	WHMIS Classification = Not rated This product does not contain components on the WHMIS Ingredient Disclosure List

15.3 National Regulations

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NECI (Taiwan National Existing Chemical Inventory)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.4 US State Regulations

Clean Air Act Section 111, Volatile Organic Compounds (VOC)	:	Not regulated
Clean Air Act Section 112, Hazardous Air Pollutants (HAP)	:	Not regulated

HMIS Ratings	:	Health: 0 Flammability: 1 Reactivity: 0
NFPA Ratings	:	Health: 1 Fire: 0 Reactivity: 0

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16. Other information

List of references

Other information	:	Comply with national laws regulating employee instruction
Revision date	:	26 October 2015
Supersedes revision dated	:	01 January 2014
Reason for revision	:	Review and update all sections Revise to GHS format
Key	:	N/A – Not Applicable NE – Not Established

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

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AND	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration Factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	Carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	Half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German Ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German Ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization for Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
o.c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German Chemical Industry Association
VPvB	Very persistent, very Bioaccumulative
VOC	Volatile Organic Compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Water into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization