

Great Eastern Technologies, LLC

SAFETY DATA SHEET

ChemStrong® RX

<u>Section 1</u>	<u>Product Identification</u>
Product Trade Name	: ChemStrong® RX
Product Use	: Reduce setting, water reducing, concrete chemical admixture
Restrictions on Use	: Intended for industrial and professional users
Product Code	: P-455
SDS Publication Date	: SDS ChemStrong RX-190515, May 15, 2019

Great Eastern Technologies, L.L.C. (GET)
4407 S. Broad Street (609) 581-1587 Factory Phone Number
Yardville, New Jersey 08620 (609) 581-0735 Fax Number
Emergency 24 hour Telephone CHEMTREC (800) 424-9300 (Account # 76-06-25)

Great Eastern Technologies, L.L.C. work hours are generally 8:00 a.m. to 5:00 p.m. Monday through Friday.
The Emergency Number is the Factory Phone Number (609) 581-1587.

Section 2 Hazard(s) Identification

GHS Reference Guide

Global Harmonized System of Classification and Labeling of Chemicals
Fifth Edition, United Nations, 2015

Emergency Overview

OSHA Hazards

Within the current knowledge of the supplier, this mixture contains no materials considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS contains valuable information important to the safe handling of this product.

Major Route of Entry and Target Organs

Eye contact

GHS Classification

- Acute Toxicity, Oral No Classification
- Acute Toxicity, Dermal No Classification
- Skin Corrosion/Irritant No Classification
- Eye Irritation Category 2A Serious Eye Irritant

Unknown Toxicity

- No applicable information was found

GHS Precautionary Statements

Hazard Statements

- Not a hazardous substance or mixture

Precautionary Statements

- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection.
- P362 + P363 Take off contaminated clothing and wash before reuse.

Precautionary Statements (Response)

- P330 + P331 **IF SWALLOWED** Rinse mouth. Do not induce vomiting.
- P302 + P352 **IF ON SKIN** Gently wash with plenty of soap and water.
- P305 + P351 + P338 **IF IN EYES** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
- P313 + P337

Hazards Not Otherwise Classified

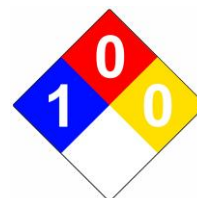
- Not a hazardous substance or mixture

Potential Health Effects

- Inhalation No significant effect or critical hazards
- Skin No significant effect or critical hazards
- Eyes No significant effect or critical hazards
- Ingestion No significant effect in small quantities

National Fire Protection Association (NFPA Rating)

- Health Hazard (Blue) 1
- Fire Hazard (Red) 0
- Reactivity Hazard (Yellow) 0
- Specific Hazard (White)



GHS Pictogram
Signal Word – WARNING

H319: Causes serious eye irritation.

Section 3 Composition – Information on Ingredients

Per 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200

<u>Ingredient Identification</u>	<u>By Weight</u>	<u>CAS #</u>	<u>Formulation</u>	<u>Hazardous Classifications are shown in the concentrate, hydrate, neat form of each Ingredient</u>
Citric Acid	1-5%	77-92-9	C ₆ H ₈ O ₇	Non Hazardous by 2012 OSHA Standard 29 CFR 1910.1200 Causes Serious Eye Irritation

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 First-Aid Measures

Contaminated individuals must be taken for medical attention if any adverse reaction occurs. Rescuers should be taken for medical attention, if necessary. Take a copy of Product Label and SDS to a health professional with the contaminated individual.

- Skin:** If this product contaminates the skin, begin decontamination with a pH neutral soap and running water. Remove exposed or contaminated clothing and wash contaminated clothing before reuse. Although not anticipated, victim must seek immediate medical attention if any adverse effect occurs.
- Eyes:** If this product enters the eyes, open contaminated individual's eyes under gently running water. Use sufficient force to open eyelids. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes.
- Inhalation:** If vapors, mist, or spray of this product are inhaled, remove contaminated individual to fresh air. If victim has difficulty with breathing, administer oxygen and seek immediate attention.
- Ingestion:** If this product is swallowed, Do not induce vomiting unless directed by a physician. Do not induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsion, or unable to swallow.

Health Effects

- Inhalation Amounts inhalation incidental to industrial handling are not expected to cause injury.
- Ingestion Amounts ingested incidental to industrial handling are not expected to cause injury. More significant amounts of ingestion may cause severe gastrointestinal disturbances. Get medical immediate attention.
- Skin Contact Contact may cause irritation. Prolonged contact may cause serious irritation.
- Eye Contact Contact can cause serious eye irritation. Seek immediate medical attention. Check for and remove any contact lenses if possible. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used.
- Chronic No known significant effects or critical hazards
- Aggravation of Pre-existing Conditions : May aggravate existing cut and abrasions.

Protection of First-Aid Givers

- No hazards which require special first aid measures

Notes to Physician

- Treat symptomatically

Section 5 Fire Fighting Measures

Special Fire Fighting Procedures

- Incipient fire responders should wear eye protection.
- Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment.
- Chemical resistant clothing may be necessary.
- Move containers from fire area if they have not been exposed to heat and if can be done without risk to personnel.

Specific Extinguishing Methods

- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Extinguishing Media To Use

- Use extinguishing media suitable for the surrounding fire

Extinguishing Media Not To Use

- Water Jet

Fire and Explosion Hazards

- carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides.

Section 6 Accidental Release Measure

Personal Precautions, Protective Equipment and Emergency Procedures

- Wear appropriate PPE as needed
- Keep unprotected persons away

Environmental Precautions and Clean Up

- Isolate hazard area and deny entry to unnecessary or unprotected personnel.
- Contain spilled liquid with absorbent media, sand or earth.
- Place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 Handling and Storage

- Avoid contact with skin, eyes and clothing. Do not ingest.
- Use with adequate ventilation.
- Use normal personal hygiene and housekeeping.
- Store in a dry area and from other incompatible materials.
- Store above 40° F. Keep from freezing.
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed
- Keep container tightly closed.
- Do not breathe gas, fumes, vapor or spray.
- Wash thoroughly after handling.
- Average shelf life is 18 months.

Materials to avoid

- No data available

Section 8 Exposure Controls/Personal Protection

- Exposure Limits** : Within the current knowledge of the supplier, this mixture contains no materials considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200).
- Engineering Requirements** : Use with adequate ventilation to control airborne levels. Use process enclosures, local exhaust ventilation, or engineering controls to keep worker exposed to airborne contaminants below any statutory limits.
- Respiratory Protection** : Not required under normal working well ventilated conditions. Respirator selection must be based on know or anticipated exposure levels.
- Poorly Ventilated Area** : Use respirators with NIOSH TC-84A-0162 filters.
- Skin Protection** : Use minimum **7 mil industrial grade latex**, polyethylene, rubber or neoprene gloves and apron.
- Eye Protection** : Use snug fitting safety goggles designed to protect eyes from a **chemical splash**.
: Safety Goggles must meet standards established by ANSI Z81.1
- Work, Hygienic Practices** : Safety Showers and/or Eye Wash should be available. Do not leave food in the work area.
: Wash thoroughly and remove any contaminated clothing.



Eye Protection



Wear Gloves Skin Protection



Clothing Protection



Wash Hands and Skin After Every Use

Section 9 Physical and Chemical Properties

- | | | | |
|----------------------|------------------------------|-------------------------|---------------------------------|
| • Appearance | : Dark Brown Liquid | • Lower Flammability | : Material is not flammable |
| • Odor | : Pungent | • Vapor Pressure | : No data available |
| • Odor Threshold | : No data available | • Vapor Density | : No data available |
| • pH Level | : 2.00 – 5.00 | • Relative Density | : 1.040 – 1.090 |
| • Melting Point | : Not Available | • Solubility | : Complete |
| • Freezing Point | : 32° F | • Partition Coefficient | : No data available |
| • Flash Point | : Material is non-flammable | • Auto-Ignition Temp | : Material is not self-igniting |
| • Evaporation Rate | : No data available | • Decomposition Temp | : No data available |
| • Flammability | : Material is non- flammable | • Viscosity | : Less than 100 cps |
| • Upper Flammability | : No data available | | |

Section 10 Stability and Reactivity

- **Reactivity** : No dangerous reaction known under conditions normal to use
- **Chemical Stability** : Product is chemically stable
- **Possible Hazardous Reactions** : Stable under recommended storage conditions.
- **Conditions to Avoid** : No data available.
- **Incompatible Materials** : No data available.
- **Hazardous Polymerization** : No data available.
- **Hazardous Decomposition Products** : None expected during normal storage, handling and use.

Section 11 Toxicological Information

ChemStrong® RXL is a mixture of chemicals as defined by OSHA/GHS and has not been tested for toxicity. This acute and chronic toxicological summary report has been derived from individual components.

ChemStrong® RXL CAS Number: Blend - Proprietary

Acute Toxicity

- Likely Route : No data available
- Dermal Symptoms : Causes skin irritating
- Inhalation Symptoms : Not toxic by inhalation
- Ingestion Symptoms : Not toxic after a single ingestion
- Irritation / Corrosion : Serious eye irritation

Aspiration Toxicity

- Product : No data available

Chronic Toxicity

- Delayed Symptoms : No data available
- Repeated Dose : No data available
- Genetic : No data available
- Carcinogenicity : Classifications are not met
IARC Classifications are not met
NTP Classifications are not met
- Handling : No data available
- Reproductive : No data available
- Tertatogenicity : No data available

Section 12 Ecological Information

- Ecotoxicity : Product is unlikely harmful to aquatic life
- Persistence : Product expected to degrade in one month or two
- Bioaccumulative Potential : There is no evidence to suggest bioaccumulation will occur
- Mobility in Soil : Data not available
- Other Information : Do not empty into drains; dispose of this material and its container in a safer way.
: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 13 Disposal Considerations

- Disposal Methods : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements
- Disposal Methods : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14 Transport Information

Material is not regulated for transport.

- DOT : Not Regulated
- TDG : Not Regulated
- ADR-RID : Not Regulated
- IMDG : Not Regulated
- IATA-DRG : Not Regulated

Section 15 Regulatory Information

- Sara 302 (Extremely Hazardous Materials) : No Reportable Chemicals
- Sara 311/312 : No Reportable Chemicals
- Sara 313 : Not Applicable
- TSCA : All components are listed or exempt
- OSHA Hazard Communication Standard : No Reportable Chemicals
- CERCLA Reportable Quantity : No Reportable Chemicals

Clean Air Act

- Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpart A, App. A + B)
- This product does not contain and hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section (40 CFR 61).
- This product does not contain and chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68. 130, Subpart F)

California Prop 65

- This product does not contain and chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

State List of Hazardous Substance

- No Reportable Chemicals

Section 16 Other Information

This SDS was created May 15, 2019 under standards established by **OSHA HCS (29 CFR 1910.1200(g))**. This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of GET's knowledge, or is obtained from sources believed by GET to be accurate. Buyer assumes the risk of injuries caused by abnormal use of the product or safety procedures are not followed.

Reason for Revision

- Original SDS

Definitions and Terms of Abbreviations and Acronyms that Frequently Appear in Safety Data Sheets

CAS # Chemical Abstract Service Number which uniquely identifies each constituent.

UEL The highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

Exposure Limits in Air

ACGIH American Conference of Government Industrial Hygienist, a professional association which establishes exposure limits.

TLV Threshold Limit Value

The TLV is the airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered as follows:

TWA Time Weighted Average (8 hour exposure)

STEL Short Term Exposure Limit (15 minutes exposure)

TLV-C Threshold Limit Value Ceiling limit

Absolute exposure limit that should not be exceeded at any time

PEL Permissible Exposure Limit

This exposure limit means exactly the same as a TLV, except it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminates Rule (Federal Register: 58: 35338-35351 and 58:40191). Both the current PELs and the vacated PELs are indicated. The phrase, "vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order.

IDLH Immediate Dangerous to Life and Health

This level represents a concentration from which one can escape within 30 minutes without suffering escape-preventing or permanent injury.

NIOSH National Institute of Occupational Safety and Health, which is the research arm of OSHA.

REL Recommended Exposure Limits, Issued by NIOSH.

Auto Ignition Temperature

The minimum temperature required to initiate combustion in air with no other source of ignition.

Flash Point

The Minimum Temperature at which a liquid gives off vapors to form an ignitable mixture with air.

LEL The lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

Toxicological Information

Possible health hazards as derived from human data, animal studies, or from the results of studies when similar compounds are presented.

LD50 Lethal Dose; kills 50% of the exposed animals

LC50 Lethal Concentration; kills 50% of the exposed animals

ppm Parts Per Million; Concentration expressed in parts of material per million parts of air or water.

mg/m3 Concentration expressed in weight of substance per volume of air.

mg/kg Quantity of material, by weight, administered to a test subject based on their body weight per kg.

RTECS Registry of Toxic Effects of Chemical Substances (Cancer Research)

Notation The IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with ranking from 1 to 4. Other measures of toxicity include **TDL_o** the lowest dose to cause a symptom and **TCL_o** the lowest concentration to cause a symptom.

BEI Biological Exposure Indices

The BEI represents the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.

EC Ecological Information

The EC is the effect concentration in water.

Regulatory Information

EPA Environmental Protection Agency

DOT Department of Transportation.

IARC International Agency for Research of Cancer

NTP National Toxicology Program (Cancer Research)

OSHA Occupational Safety and Health Administration

SARA Superfund Amendments and Reauthorization Act

TSCA U.S. Toxic Substance Control Agency

CERCLA Comprehensive Environmental Response, Compensation and Liability Act