

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Code:</b>	CHEMXW-001-BULK	
<b>Product Name:</b>	CarbonZyme	
<b>Company Name:</b>	ChemxWorks	<b>Phone Number:</b>
	8340 Camino Santa Fe, Suite D	+1 (844)322-7266
	San Diego, CA 92121	
<b>Emergency Contact:</b>	CHEMTREC	+1 (800)424-9300

## 2. HAZARDS IDENTIFICATION

**Serious Eye Damage/Eye Irritation, Category 2B**  
**Acute Toxicity: Oral, Category 4**  
**Skin Corrosion/Irritation, Category 3**



<b>GHS Signal Word:</b>	<b>Warning</b>
<b>GHS Hazard Phrases:</b>	H302 - Harmful if swallowed. H316 - Causes mild skin irritation. H320 - Causes eye irritation.
<b>GHS Precaution Phrases:</b>	P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/eye protection. P102 - Keep out of reach of children. P103 - Read label before use.
<b>GHS Response Phrases:</b>	P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315 - Get immediate medical advice/attention. P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention. P302 - IF ON SKIN: P352 - Wash with plenty of water. P332+313 - If skin irritation occurs, get medical advice/attention.
<b>GHS Storage and Disposal Phrases:</b>	P501 - Dispose of contents/container in accordance to local, state and federal regulations.
<b>Potential Health Effects (Acute and Chronic):</b>	
<b>Skin Contact:</b>	May cause skin irritation. Repeated or prolonged exposure may cause drying of the skin.
<b>Eye Contact:</b>	May cause eye irritation. May cause redness.
<b>Ingestion:</b>	May be harmful if swallowed. May cause gastrointestinal irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
497-19-8	Sodium carbonate	<40.0 %
6834-92-0	Sodium metasilicate	<20.0 %
NA	Phosphate	<15.0 %
NA	Surfactant	< 5.0 %
5329-14-6	Sulfamic acid	<15.0 %

### 4. FIRST AID MEASURES

**Emergency and First Aid Procedures:**

**In Case of Skin Contact:** Flush skin with plenty of water. If skin irritation occurs, get medical advice/attention.

**In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**In Case of Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.

**Note to Physician:** Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

### 5. FIRE FIGHTING MEASURES

**Flash Pt:** NA

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** NA

**Suitable Extinguishing Media:** Use water fog, dry chemical, carbon dioxide, or alcohol-resistant foam.

**Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Flammable Properties and Hazards:** High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.

**Hazardous Combustion Products:** No data available.

### 6. ACCIDENTAL RELEASE MEASURES

**Protective Precautions, Protective Equipment and Emergency Procedures:** Use proper personal protective equipment as indicated in Section 8.

**Environmental Precautions:** Observe all federal, state, and local environmental regulations.

**Steps To Be Taken In Case Material Is Released Or Spilled:** Sweep up, then place into a suitable container for disposal. Avoid contact with eyes, skin, and clothing. Avoid generating dusty conditions. Ensure adequate ventilation.

### 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use with adequate ventilation.

**Precautions To Be Taken in Storing:** Do not store in direct sunlight. Protect containers against damage. Keep container tightly closed in a dry and well-ventilated place.

**Other Precautions:** Handle in accordance with good industrial hygiene and safety practice.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
497-19-8	Sodium carbonate	No data.	No data.	No data.
6834-92-0	Sodium metasilicate	No data.	No data.	No data.
NA	Phosphate	No data.	No data.	No data.
NA	Surfactant	No data.	No data.	No data.
5329-14-6	Sulfamic acid	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):** No special respiratory protection equipment is required with normal use.

**Eye Protection:** Safety glasses.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.

**Other Protective Clothing:** No data available.

**Engineering Controls (Ventilation etc.):** No data available.

**Work/Hygienic/Maintenance Practices:** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** White.  
Free flowing granules.

**pH:** 11 - 12

**Melting Point:** NA

**Boiling Point:** NA

**Flash Pt:** NA

**Evaporation Rate:** NA

**Flammability (solid, gas):** No data available.

**Explosive Limits:** LEL: No data. UEL: No data.

**Vapor Pressure (vs. Air or mm Hg):** NA

**Vapor Density (vs. Air = 1):** NA

**Specific Gravity (Water = 1):** No data.

**Solubility in Water:** No data.

**Saturated Vapor Concentration:** NA

**Octanol/Water Partition Coefficient:** No data.

**Autoignition Pt:** NA

**Decomposition Temperature:** NA

**Viscosity:** NA

## 10. STABILITY AND REACTIVITY

**Reactivity:** High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Incompatible materials, High temperatures, Light.

**Incompatibility - Materials To Avoid:** Strong acids.

**Hazardous Decomposition or Byproducts:** No data available.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicological Information:</b>	Epidemiology: No information found. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: Acute toxicity. No data available. Respiratory or skin sensitization: No information available.
<b>Irritation or Corrosion:</b>	Other Studies: CAS# 497-19-8: Acute toxicity, LD50, Oral, Rat, 4090 mg/kg  Other Studies: CAS# 497-19-8: Standard Draize Test, Skin, Species: Rabbit, 500.0 mg, 24H Standard Draize Test, Eyes, Species: Rabbit, 100.0 mg, 24H  Other Studies: CAS# 5329-14-6: Acute toxicity, LD50, Oral, Rat, 3160 mg/kg  Other Studies: CAS# 5329-14-6: Standard Draize Test, Skin, Species: Rabbit, 500 mg, 24H Standard Draize Test, Eyes, Species: Rabbit, 20 mg  Other Studies: CAS# 6834-92-0: Acute toxicity, LD50, Oral, Rat, 1000 mg/kg  Other Studies: CAS# 6834-92-0: Standard Draize Test, Skin, Species: Rabbit, 250.0 mg, 24H
<b>Carcinogenicity/Other Information:</b>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>Carcinogenicity:</b>	NTP? No      IARC Monographs? No      OSHA Regulated? No

## 12. ECOLOGICAL INFORMATION

<b>General Ecological Information:</b>	Environmental: No information available. Physical: No information available.
<b>Results of PBT and vPvB assessment:</b>	CAS# 6834-92-0: Sodium metasilicate: LC50, Zebra Danio (Danio rerio), 210.0 MG\L, 96 H. Result: Loss of equilibrium. Other Studies: CAS# 497-19-8: LC50, Water Flea (Daphnia magna), 265,000 ug/L, 48H LC50, Fathead Minnow (Pimephales promelas), 850,000 ug/L, 96H

LC50, Western Mosquitofish (*Gambusia affinis*), adult(s), 740000 ug/L, 96H

Other Studies: CAS# 5329-14-6:

LC50, Fathead Minnow (*Pimephales promelas*), 14200 ug/l, 96 H

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

### 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:**

**UN/NA Number:**

### 15. REGULATORY INFORMATION

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
497-19-8	Sodium carbonate	No	No	No
6834-92-0	Sodium metasilicate	No	No	No
NA	Phosphate	No	No	No
NA	Surfactant	No	No	No
5329-14-6	Sulfamic acid	No	No	No

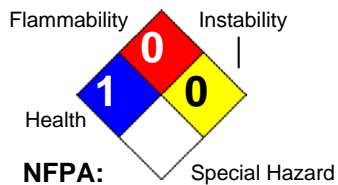
**CAS #      Hazardous Components (Chemical Name)      Other US EPA or State Lists**

497-19-8	Sodium carbonate	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
6834-92-0	Sodium metasilicate	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
NA	Phosphate	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
NA	Surfactant	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
5329-14-6	Sulfamic acid	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No

**16. OTHER INFORMATION**

**Revision Date:** 05/07/2015

**Hazard Rating System:**



**Additional Information About** No data available.

**This Product:**

**Company Policy or**

**Disclaimer:**

While ChemxWorks believes the statements set forth herein are accurate as of the date hereof, ChemxWorks makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.