

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

**1.1 Product identifier**

**Product Name:** ScaleBreak®-Neutralizer  
**Product Codes(s):** SCLBRK-NEUT-XX  
**Synonyms:** Sodium carbonate  
**REACH Registration Number:** No data available

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**General Use:** Neutralizing agent  
**Uses advised against:** No uses advised against

**1.3 Details of the supplier and of the safety data sheet**

**Manufacturer/Distributor**  
 Goodway Technologies Corp.  
 420 West Avenue  
 Stamford, CT 06902 USA  
 +1-203-359-4708; Toll free: +1-800-243-7932

**1.4 Emergency telephone number**

Chemtrec (24 hours): +1-800-424-9300

**SECTION 2 - HAZARDS IDENTIFICATION**

**2.1 Classification of substance or mixture**

**Product definition:** Substance  
**Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008**  
 Eye Irritant - Category 2A [H319]

**2.2 Label Elements**

**Hazard Symbol(s):**   
 GHS07  
**Signal Word:** Warning  
**Hazard Statement(s):** H319 - Causes serious eye irritation  
**Precautionary Statements:**  
**[Prevention]** P264 - Wash hands and other skin areas exposed to material thoroughly after handling.  
 P280 - Wear protective gloves, protective clothing and eye protection.  
**[Response]** P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical attention.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

% by Weight	Ingredient	CAS Number	EC Number	Index Number	GHS Classification
>99	Sodium Carbonate	497-19-8	207-838-8	011-005-00-2	H319

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.

**3.2 Mixtures**

Not applicable

**SECTION 4 - FIRST AID MEASURES**

**4.1 Description of first aid measures**

**Inhalation:** If product dust causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight fitting clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention.  
**Eyes:** Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after the first 2 minutes and continue rinsing. Seek immediate medical attention, preferably from an ophthalmologist.  
**Skin:** Flush skin with large amounts of water while removing contaminated clothing and continue rinsing for at least 15 minutes. Wash contaminated clothing thoroughly before reuse. Discard contaminated shoes. If irritation occurs or persists, seek medical attention.  
**Ingestion:** Rinse mouth with water if the victim is conscious. Remove dentures, if present. Do NOT induce vomiting unless directed to do so by medical personnel. Give 1 - 2 glasses of milk or water to drink if the victim is conscious, alert and able to swallow. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Obtain immediate medical attention.

## 4.2 Most important symptoms and effects, both acute and delayed

### Potential health symptoms and effects

**Eyes:** Causes severe eye irritation. Symptoms may include redness, swelling, pain, tearing, blurred vision and possible burns. May cause corneal injury and blindness.

**Skin:** Causes skin irritation with redness, itching, swelling and burns, especially if the skin is wet or moist.

**Inhalation:** Harmful if inhaled. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and edema.

**Ingestion:** Harmful if swallowed. Causes irritation of the gastrointestinal tract. Symptoms include nausea, vomiting cramping and diarrhea.

**Chronic:** Prolonged and repeated inhalation may result in nosebleeds, nasal congestion, erosion of the teeth, perforation of the nasal septum, chest pain and bronchitis.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Advice to Doctor and Hospital Personnel:** Treat symptomatically and supportively.

## SECTION 5 - FIRE FIGHTING MEASURES

### 5.1 Extinguishable media

**Suitable methods of extinction:** Non-combustible. Use extinguishing media suitable for surrounding material.

**Unsuitable methods of extinction:** None known

### 5.2 Special hazards arising from the substance or mixture

Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

**Explosion hazards:** Not considered to be explosion hazard.

### 5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust generation and accumulation. Do not inhale dust. Ventilate the area. Evacuate non-essential personnel from the area. Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition.

### 6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

### 6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Minimize dust generation during clean-up. Carefully collect material and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Dispose of waste via a licensed waste disposal contractor.

### 6.4 Reference to other sections

See Section 13 for additional waste treatment information.

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8. Do not get in eyes or on skin or clothing. Do not breathe dust. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Discard contaminated shoes.

#### Advice on protection against fire and explosion

Material does not present a fire or explosion hazard.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool, well-ventilated area away from incompatible materials (see Section 10.5), food and drink. Transfer only to approved containers having correct labeling. Keep container tightly closed. Protect container against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent spillage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids). Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

### 7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

**Engineering Measures:** Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1 for additional data.

**Individual protection measures:** Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance

of the protective equipment should be required at the representative supplier.

**Hygiene measures:** Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

**Eye/face protection:** Wear protective goggles or safety glasses with non-perforated side shields and a face shield. Refer to 29 CFR 1910.133, ANSI Z87.4 or Standard EN 166.

**Hand Protection:** Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of gloves must be greater than the intended use period.

**Other protective equipment:** Wear protective clothing. Wear protective boots if the situation requires.

**Respiratory Protection:** Wear an approved filter type dust respirator when handling this product. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

*PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.*

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	White solid
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No data available
<b>Molecular Weight</b>	105.99
<b>Chemical Formula</b>	Na <sub>2</sub> CO <sub>3</sub>
<b>pH</b>	11.6 (0.1M aqueous solution)
<b>Freezing/Melting Point, Range</b>	851 °C (1,564 °F)
<b>Initial Boiling Point</b>	Not determined
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	>400 °C (>752 °F)
<b>Lower Explosive Limit (LEL)</b>	Not applicable
<b>Upper Explosive Limit (UEL)</b>	Not applicable
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Specific Gravity</b>	2.54
<b>Viscosity</b>	No data available
<b>Solubility in Water</b>	215 g/l @ 20 °C
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Volatiles by Weight @ 21 °C</b>	0%

### 9.2 Other data

No data available

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

No special reactivity has been reported.

### 10.2 Chemical stability

This product is stable under recommended storage conditions, handling and use. Material is hygroscopic (absorbs moisture from the air).

### 10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

High temperatures. Contact with incompatible materials. Dust generation and accumulation.

### 10.5 Incompatible materials

Strong oxidizing agents, strong acids, fluorine, metals

### 10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon and toxic sodium oxide fumes.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Oral Toxicity

LD<sub>50</sub>, rat: 2,800 mg/kg bw

#### Acute inhalation toxicity

LC<sub>50</sub>, rat: 2,300 mg/m<sup>3</sup> - 2 h

**Acute dermal toxicity**

LD<sub>50</sub>, rabbit: >2,000 mg/kg bw

**Skin irritation/corrosion**

Causes skin irritation.

**Eye irritation/corrosion**

Causes severe eye irritation and possible burns; may cause corneal damage

**Sensitization**

No data available

**Genotoxicity in vitro & in vivo**

No data available

**Mutagenicity**

No data available

**Specific organ toxicity - single exposure**

No data available

**Specific organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Further information**

This material is not listed as a carcinogen by IARC, ACGIH, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity of this material, nor is there available data that indicates that it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

**SECTION 12 - ECOLOGICAL INFORMATION****12.1 Toxicity**

**Acute and prolonged toxicity to fish:** LC<sub>50</sub> - Gambusia affinis (Mosquitofish), 96 h: 740 mg/l  
LC<sub>50</sub> - Lepomis macrochirus (Bluegill Sunfish), 96 h: 300 mg/l  
LC<sub>50</sub> - Notropis spilopterus (Spotfin shiner), 120 h: 250 mg/l; minimum lethal concentration

**Acute toxicity to aquatic invertebrates:** EC<sub>50</sub> - Daphnia (Water flea), 48 h: 200 - 227 mg/l; immobilization

**12.2 Persistence and degradability**

Inorganic substances are not biodegradable. Methods for the determination of biodegradability are not applicable to inorganic substances.

**12.3 Bioaccumulation potential**

This material will not bioaccumulate.

**12.4 Mobility in soil**

This product has high mobility in soil.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available.

**12.6 Other adverse effects****Additional ecological information**

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**SECTION 13 - DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Methods of disposal:** The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Hazardous waste:** The classification of this product may meet the criteria for a hazardous waste.

**SECTION 14 - TRANSPORT INFORMATION**

**Note:** Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

**NOT REGULATED FOR TRANSPORT**

**SECTION 15 - REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for substance or mixture****U. S. Federal Regulations**

**OSHA Hazard Communication Standard:** This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

**OSHA Process Safety Management Standard:** Chemicals in this product are not regulated under OSHA PSM Standard 29 CFR 1910.119.

**EPA Risk Management Planning Standard:** Chemicals in this product are not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

**EPA Federal Insecticide, Fungicide and Rodenticide Act:** This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

**TSCA Status:** This substance is listed on the Toxic Substance Control Act (TSCA) Inventory. This product is not subject to TSCS 12(b) Export Notification.

**Superfund Amendments and Reauthorization Act (SARA)**

**SARA 313 Information:** None of the chemicals in this product are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

**SARA Section 311/312 Hazard Categories:** Acute Health Hazard

**SARA 302/304 Extremely Hazardous Substance:** None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

**SARA 302/304 Emergency Planning & Notification:** None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

**Comprehensive Response Compensation and Liability Act (CERCLA):** This product contains no CERCLA reportable substances.

**Clean Air Act (CAA)**

This product does not contain any chemicals listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

**Clean Water Act (CWA)**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**U.S. State Regulations**

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986**

This product contains no chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

**Other U.S. State Inventories**

This material is not listed on any State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists.

**Canada**

**WHMIS Hazard Symbol and Classification**



E - Corrosive



D2B - Toxic material causing other toxic effects - eye irritation

**Canadian National Pollutant Release Inventory (NPRI):** None of the substances in this product are listed on the NPRI.

**European Economic Community**

**Labeling (67/548/EEC or 1999/45/EC)**



Xi - Irritant

**Risk Phrases:** R36 - Irritating to eyes.

**Safety Phrases:** S2 - Keep out of the reach of children.

S22 - Do not breathe dust.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**WGK, Germany (Water danger/protection):** 1

**Global Chemical Inventory Lists**

Country	Inventory Name	Inventory Listing*
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.

No - One or more components of this product are not on the inventory and are not exempt from listing.

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

## SECTION 16 - OTHER INFORMATION

### Hazardous Material Information System (HMIS)

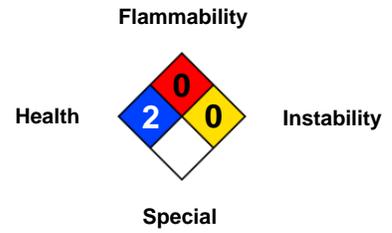
Health	2
Flammability	0
Physical Hazard	0
Personal Protection	C

#### HMIS & NFPA Hazard Rating Legend

\* = Chronic Health Hazard      2 = MODERATE  
 0 = INSIGNIFICANT                3 = HIGH  
 1 = SLIGHT                            4 = EXTREME



### National Fire Protection Association (NFPA)



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