

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

**Product Name:** Foam-Cleanse-A1  
**Product Codes(s):** Foam-Cleanse-A1  
**Synonyms:** Aqueous, chlorinated alkaline solution  
**REACH Registration Number:** No data available

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

**General Use:** General purpose cleaner and sanitizer  
**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:** Mixture  
**Classification (Regulation (EC) No 1272/2008)**  
 Skin Corrosive - Category 1A [H314]  
 Acute Aquatic Toxicity - Category 1 [H400]

#### 2.2 Label Elements

**Labeling (Regulation (EC) No 1272/2008)**

**Hazard Symbol(s):**



**Signal Word:** Danger  
**Hazard Statement(s):** H314 - Causes severe skin burns and eye damage  
 H400 - Very toxic to aquatic life  
 EUH031 - Contact with acids liberates toxic gas

**Precautionary Statements:**

**[Prevention]** P260 - Do not breathe mists.  
 P264 - Wash hands and other skin areas exposed to material thoroughly after handling.  
 P280 - Wear protective gloves, protective clothing, eye protection and face protection.  
 P273 - Avoid release to the environment.  
**[Response]** P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.  
 P363 - Wash contaminated clothing before reuse.  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P310 - Immediately call a POISON CENTER or doctor.  
 P321 - Specific treatment: Seek IMMEDIATE medical advice. Refer to product label and Section 4 of this SDS.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**[Storage]** P391 - Collect spillage.  
**[Disposal]** P405 - Store locked up.  
 P501 - Dispose of contents in accordance with national and local regulations.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

**Chemical characterization (preparation)**

% by Weight	Ingredient	CAS Number	EC Number	Index Number	EC Classification
3 - 7	Sodium Hypochlorite	7681-52-9	231-668-3	017-011-00-1	C, R34; R31; N, R50

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

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of first aid measures

**Inhalation:** If product mist or vapor 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 or become worse, seek prompt 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 of rinsing 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 and shoes thoroughly before reuse. If irritation occurs or persists, seek medical attention.

**Ingestion:** Rinse mouth with water if victim is conscious. Remove dentures, if any. Give 2 - 3 glasses of water to drink if victim is conscious, alert and able to swallow. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Obtain immediate medical attention. To prevent aspiration of swallowed product, lay victim on side with the head lower than the waist.

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

#### Potential health symptoms and effects

**Eyes:** Corrosive. Direct contact with liquid may cause severe eye irritation with redness, swelling, pain, burns and possibly severe and permanent eye damage including blindness. Material is extremely destructive to eyes, mucous membranes and surrounding tissues. The degree of injury depends on the concentration and duration of contact.

**Skin:** Direct contact causes skin irritation and possible burns. Symptoms include inflammation, pain, tearing and possible tissue destruction.

**Inhalation:** Vapor and mist may be harmful if inhaled, causing sore throat and cough. Material is extremely destructive to the tissues of the mucous membranes and upper respiratory tract.

**Ingestion:** Causes severe gastrointestinal tract irritation with abdominal pain, burning sensation, cough, sore throat, nausea, vomiting and diarrhea. May cause burns and irritation to the mouth, nose, lips, throat and tissues of the digestive tract.

**Chronic:** Prolonged or repeated contact with mist or vapor may result in chronic eye irritation, severe skin irritation and dermatitis, and respiratory tract irritation leading to frequent attacks of bronchial infection.

### 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:** Use extinguishing media suitable for surrounding material.

**Unsuitable methods of extinction:** None known

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

Approach fire from upwind to avoid hazardous vapors and toxic decomposition products such as chlorine, hydrogen and hydrogen chloride gases. Closed containers may explode due to 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 immediate medical attention.

**Explosion hazards:** Not considered to be an 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 breathing mist or vapor. Avoid contact with skin and eyes. Wear appropriate protective clothing designated in Section 8. Ventilate the area. Remove all sources of ignition. Evacuate non-essential personnel.

### 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

Approach the release from upwind. Cover drains and contain spill. Cover with a large quantity of non-combustible, inert absorbent. Do not use combustible materials such as saw dust. Shovel or sweep up product and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Dispose of via a licensed waste disposal contractor. Clean contaminated area with water. DO NOT mix with other cleaning agents that may liberate chlorine gas.

Releases should be reported, if required, to appropriate agencies. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800) 424-8802 (USA) or (202) 426-2675 (USA).

### 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 vapor or mist. Do not ingest. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator.

### Advice on protection against fire and explosion

Not considered to be a fire or explosion hazard

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

Store in a dry, cool and 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 leakage. Containers of this material may be hazardous when empty since they retain product residues. 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

#### Occupational Exposure Limits

CAS Number	Ingredient	OSHA	ACGIH	NIOSH
7681-52-9	Sodium Hypochlorite	2 mg/m <sup>3</sup> TWA; Skin	0.5 ppm as Cl <sub>2</sub> - TWA; 1ppm as Cl <sub>2</sub> , STE-, A4	-----

### 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 enquired 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 butyl rubber or neoprene gloves, or those 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:** Protective clothing. Protective boots, if the situation requires.

**Respiratory Protection:** Always use an approved respirator when vapor or fumes are generated. 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.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Clear, pale yellow liquid
Odor	Mild, similar to chlorine
Odor Threshold	0.3 ppm (Chlorine)
Molecular Weight	Not applicable
Chemical Formula	Not applicable
pH	11.9 - 12.1
Freezing/Melting Point, Range	No data available
Initial Boiling Point	>100 °C (>212 °F)
Evaporation Rate	<1 (n-BuAc =1)
Flammability (solid, gas)	Not applicable
Flash Point	Not applicable
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Lower Explosive Limit (LEL)	Not applicable
Upper Explosive Limit (UEL)	Not applicable
Vapor Pressure	Not determined
Vapor Density	Not determined
Specific Gravity	1.05 - 1.07
Viscosity	Not determined
Solubility in Water	Complete
Partition Coefficient: n-octanol/water	No data available
Volatiles by Volume @ 70 °F	>95%

### 9.2 Other data

No data available

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition.

## 10.2 Chemical stability

This product is stable under recommended storage conditions, handling and use. Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium hypochlorite becomes less toxic with age.

## 10.3 Possibility of hazardous reactions

Avoid contact with acids, halogenated organics, organic nitro compounds and glycols. Hazardous gases may be liberated on contact with acids, ammonium hydroxide or cleaners containing ammonia compounds.

Hazardous polymerization does not occur.

## 10.4 Conditions to avoid

Light, heat, combustible materials, contact with incompatible materials

## 10.5 Incompatible materials

Strong oxidizing agents, strong reducing agents, acids, ammonia, amines, ammonium salts, methanol, metals, nitrites

## 10.6 Hazardous decomposition products

Thermal decomposition products include chlorine gas, hydrogen chloride gas and hydrochloric acid.

# SECTION 11 - TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

### Acute Oral Toxicity

Sodium Hypochlorite - LD50, rat: >5,000 mg/kg

### Acute inhalation toxicity

Sodium Hypochlorite - LC50, rat: >10.5 ml/l - 4h

### Acute dermal toxicity

Sodium Hypochlorite - LD50, rabbit: >10,000 mg/kg

### Skin irritation/corrosion

Corrosive to skin

### Eye irritation/corrosion

Corrosive to eyes; may cause permanent eye damage

### Sensitization

No data available

### Genotoxicity in vitro

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

Sodium Hypochlorite: IARC Group A3 carcinogen - Not classifiable as to its carcinogenicity to humans. Not listed as a carcinogen by OSHA, ACGIH or NTP.

No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

# SECTION 12 - ECOLOGICAL INFORMATION

## 12.1 Toxicity

Dangerous to aquatic life. Contains Sodium Hypochlorite which is very toxic to aquatic life.

### Aquatic Toxicity: Sodium Hypochlorite

#### Acute and prolonged toxicity to fish:

LC50 - Pimephales promelas (Fathead minnow), 96 h: 0.22 - 0.64 mg/l

LC50 - Oncorhynchus clarki (Cutthroat trout), 96 h: 0.94 µg/l (mortality)

#### Toxicity to aquatic invertebrates:

EC50 - Daphnia magna (Water flea), 96 h: 2.1 mg/l

LC50 - Protozoan phylum (Protozoa), 7 h: 31.6 µg/l

#### Toxicity to aquatic plants:

LC50 - Algae, phytoplankton, algal mat (Algae), 24 h: 28 mg/l

## 12.2 Persistence and degradability

The organic components in this product may be biodegradable. Inorganic substances are not biodegradable. Methods for the determination of biodegradability are not applicable to inorganic substances.

## 12.3 Bioaccumulation potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

No data available

## 12.6 Other adverse effects

### Additional ecological information

Harmful to the aquatic environment. Sodium Hypochlorite is toxic to fish and aquatic organisms.  
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. Dispose of through normal sump systems with proper pH adjustment.

**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.

### US DOT (Domestic Ground Transportation)

**Proper Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hypochlorite)  
**Hazard Class:** 8  
**UN/NA:** UN3266  
**Packing Group:** III  
**NAERG:** Guide #154  
**Packaging Authorization:** Non-Bulk: 49 CFR 173.203; Bulk: 173.241  
**Packaging Exceptions:** 49 CFR 173.154



### IMO/IMDG (Water Transportation)

**Proper Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hypochlorite)  
**Hazard Class:** 8  
**UN/NA:** UN3266  
**Packing Group:** III  
**Marine Pollutant:** No  
**EMS Number:** F-A, S-B

### ICAO/IATA (Air Transportation)

**Proper Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hypochlorite)  
**Hazard Class:** 8  
**UN/NA:** UN3266  
**Packing Group:** III  
**Quantity Limitations:** 49 CFR 175.27 and 175.75 - Cargo Aircraft Only: 60 l; Passenger Aircraft: 5 l

### RID/ADR (Rail Transportation)

**Proper Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hypochlorite)  
**Hazard Class:** 8  
**UN/NA:** UN3266  
**Packing Group:** III

## 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:** All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product is subject to TSCA 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.

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 the following CERCLA reportable substances:  
Sodium Hypochlorite (CAS #7681-52-9), RQ - 45.36 kg (100 lbs)

### Clean Air Act (CAA)

This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).  
This product does not contain any Class 1 Ozone depleters.  
This product does not contain any Class 2 Ozone depleters.

### Clean Water Act (CWA)

Sodium Hypochlorite and Hypochlorite Solutions 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 or other reproductive harm.

#### Other U.S. State Inventories:

Sodium Hypochlorite (CAS #7681-52-9) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants List(s): CA, DE, MA, MN, NJ, NY, PA.

### Canada

#### WHMIS Hazard Symbol and Classification:



E - Corrosive material

**Canadian Controlled Products Regulations (CPR):** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

**Canadian Ingredient Disclosure List (IDL):** Sodium Hypochlorite (CAS #7681-52-9) is listed on the IDL.

**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 to 1999/45/EC)



Xi - Irritant



N - Dangerous for the environment

**Risk Phrases:** R34 - Causes burns  
R31 - Contact with acids liberates toxic gas.  
R50 - Very toxic to aquatic organisms.

**Safety Phrases:** S1/2 - Keep locked up and out of the reach of children.  
S28 - After contact with skin, wash immediately with plenty of soap-suds.  
S45 - In case of accident or if you don't feel well, seek medical advice immediately (show the label or SDS whenever possible).  
S50 - Do not mix with acids, peroxides, metal salts and reducing agents.  
S51 - Use only in well-ventilated areas.

**WGK, Germany (Water danger/protection): 2**

#### 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)	No
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	----
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	----
Korea	Existing Chemicals List (KECL)	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.

\*"No" indicates that 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	1
Personal Protection	C

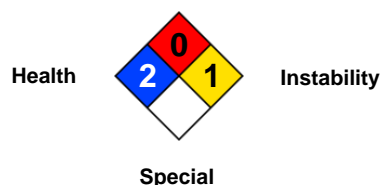


#### HMIS & NFPA Hazard Rating Legend

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

### National Fire Protection Association (NFPA)

#### Flammability



Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Goodway Technologies. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Goodway Technologies be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. Representations or warranties, either express or implied or merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

Version 1

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