

# SAFETY DATA SHEET

Date Prepared : 02/07/2013

SDS No. : Robelle Winter Stain and Scale

Date Revised : 07/30/2015

Revision No : 2

## Robelle Industries - Winter Stain and Scale Control

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Robelle Industries - Winter Stain and Scale Control  
**GENERAL USE:** Winter closing stain and scale control for swimming pools.

#### DISTRIBUTOR

Robelle Industries, Inc.  
 (781) 297-7422  
 60 Campanelli Dr  
 Braintree, MA 02184

### 2. HAZARDS IDENTIFICATION

#### GHS LABEL

This product is not classified as hazardous according to the Globally Harmonized System (GHS)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Citric Acid (Eye Irritant 2A, H319)	< 10	77-92-9

**COMMENTS:** The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**EYES:** Remove contacts, if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**SKIN:** Rinse skin and wash with soap and water.

**INGESTION:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

**INHALATION:** Supply fresh air; consult a doctor in case of complaints.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Slight irritant effect on eyes.

**INGESTION:** Gastric or intestinal disorders when ingested. Nausea in case of ingestion.

### 5. FIRE FIGHTING MEASURES

**GENERAL HAZARD:** Formation of toxic gases is possible during heating or in case of fire.

**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for surrounding fire.

**FIRE FIGHTING EQUIPMENT:** Firefighters should wear self-contained respiratory protective device and full protective suit.

### 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Pick up mechanically. Dispose of collected material according to regulations.

**RELEASE NOTES:** Do not allow to enter sewers/surface or ground water.

**SPECIAL PROTECTIVE EQUIPMENT:** Ensure adequate ventilation. For large spills wear protective clothing. Use respiratory protective device against the effects of fumes/dust/aerosol.

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### 7. HANDLING AND STORAGE

**HANDLING:** Prevent formation of dust. Use only in well ventilated areas.

**STORAGE:** Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed receptacles.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)								
				EXPOSURE LIMITS				
				OSHA PEL		ACGIH TLV		
Chemical Name				ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Citric Acid (Eye Irritant 2A, H319)				TWA	[1]	[1]	[2]	[2]
<b>Footnotes:</b>								
1. 5 mg/m <sup>3</sup> (respirable dust)								
2. Not established. Use TLV for Nuisance dusts of 5 mg/m <sup>3</sup> .								

**ENGINEERING CONTROLS:** Local exhaust acceptable. Special exhaust not required.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses recommended.

**SKIN:** Gloves not required under normal conditions of use. Wear protective gloves to handle contents of damaged or leaking units. The glove materials should be impermeable and resistant to the product.

**RESPIRATORY:** None required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection may be advisable.

**PROTECTIVE CLOTHING:** Not required under normal conditions of use. Protective clothing may be required for spills.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** None.

**APPEARANCE:** Granular.

**COLOR:** White

**PERCENT VOLATILE:** Not Established

**FLASHPOINT AND METHOD:** Not Established

**FLAMMABLE LIMITS:** 0 to 0

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** N/A.

**MELTING POINT:** Not Available

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** Not Established

**SPECIFIC GRAVITY:** 1.225

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### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** Store away from oxidizing materials.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Toxic fumes may be released if heated above the decomposition point. Reacts with strong alkali. Reacts with strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide and phosphorus oxides.

**INCOMPATIBLE MATERIALS:** None known.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**NOTES:** When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided.

**EYE EFFECTS:** Slight irritant effect on eyes.

**SKIN EFFECTS:** Slight irritant effect on skin and mucous membranes.

#### CARCINOGENICITY

**NTP:** Components of this product are not listed as a carcinogen by the NTP.

**OSHA:** Components of this product are not listed as a carcinogen by OSHA.

**SENSITIZATION:** Non-sensitizer.

### 12. ECOLOGICAL INFORMATION

**GENERAL COMMENTS:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in accordance with applicable local, state, and federal regulations.

**PRODUCT DISPOSAL:** Smaller amounts may be disposed of with household waste.

### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not Regulated.

### 15. REGULATORY INFORMATION

#### UNITED STATES

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**313 REPORTABLE INGREDIENTS:** No reportable chemicals.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Not listed.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

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## Robelle Industries - Winter Stain and Scale Control

**TSCA STATUS:** All components are listed.

### REGULATIONS

**STATE REGULATIONS:** Not regulated.

**CALIFORNIA PROPOSITION 65:** There are no chemicals present known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## 16. OTHER INFORMATION

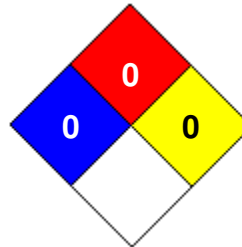
Date Revised: 07/30/2015

**REVISION SUMMARY:** This SDS replaces the 07/19/2013 SDS. Revised: **Section 2:** MEDICAL CONDITIONS AGGRAVATED, POTENTIAL HEALTH EFFECTS ( SKIN, INHALATION, INGESTION ). **Section 3:** COMMENTS, Wt.%. **Section 4:** EYES, INGESTION, INHALATION, NOTES TO PHYSICIAN, SIGNS AND SYMPTOMS OF OVEREXPOSURE ( INGESTION ), SKIN. **Section 5:** FIRE FIGHTING EQUIPMENT, GENERAL HAZARD. **Section 6:** GENERAL PROCEDURES, RELEASE NOTES, SPECIAL PROTECTIVE EQUIPMENT. **Section 7:** COMMENTS, HANDLING, STORAGE. **Section 8:** PERSONAL PROTECTIVE EQUIPMENT ( EYES AND FACE, RESPIRATORY, PROTECTIVE CLOTHING ). **Section 9:** BOILING POINT, COLOR. **Section 10:** CONDITIONS TO AVOID, HAZARDOUS DECOMPOSITION PRODUCTS, POSSIBILITY OF HAZARDOUS REACTIONS. **Section 11:** ACUTE ( ACUTE, EYE EFFECTS, NTP, OSHA, SENSITIZATION, SKIN EFFECTS. **Section 12:** COMMENTS, GENERAL COMMENTS. **Section 13:** COMMENTS, PRODUCT DISPOSAL. **Section 15:** CERCLA REGULATORY, 313 REPORTABLE INGREDIENTS, STATE REGULATIONS, TSCA STATUS, CALIFORNIA PROPOSITION 65. **Section 16:** HMIS RATING ( PERSONAL PROTECTION ), NFPA CODES ( REACTIVITY ).

### HMIS RATING

HEALTH	<input type="text"/>	0
FLAMMABILITY	<input type="text"/>	0
PHYSICAL HAZARD	<input type="text"/>	0
PERSONAL PROTECTION	<input type="text"/>	

### NFPA CODES



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SAFETY DATA SHEET  
Non-Chlorine Winter Shock Mixture- 0122

**Product Name:** Non-Chlorine Winter Shock Mixture  
**Date:** 5/18/17

SECTION 1 **IDENTIFICATION**

**Supplier:** Phoenix Products Company  
55 Container Drive  
Terryville, CT 06786  
(860) 589-7502

**Distributor:**

**U.S. PERS Emergency Telephone:** 1-800-633-8253  
**Product Name:** Non-Chlorine Winter Shock Mixture  
**Chemical Formula:**  $\text{HKO}_5\text{S} \cdot 0.5\text{HKO}_4\text{S} \cdot 0.5\text{K}_2\text{O}_4\text{S}, + \text{Na}_2\text{CO}_3$   
**CAS Number:** 70693-62-8, 497-19-8  
**Product Use:** Non-Chlorine Water Shock

SECTION 2 **HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

Danger



**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Eye irritation (Category 2A)  
Respiratory sensitization (Category 1)  
Skin sensitization (Category 1)  
Specific target organ toxicity - single exposure (Category 3), Respiratory system

**Hazard Statement(s).**

H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.

**Precautionary statement(s)**

P260: Do not breathe dust or mist.  
P264: Wash skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.



SAFETY DATA SHEET  
Non-Chlorine Winter Shock Mixture- 0122

**SECTION 2 HAZARDS IDENTIFICATION - Continued**

P285: In case of inadequate ventilation wear respiratory protection.  
P321: Specific treatment (see First Aid Measures on this label).  
P363: Wash contaminated clothing before reuse.  
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents/ container to an approved waste disposal plant.

**SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS**

<b>Component</b>	<b>CAS Number</b>	<b>Percent</b>
Potassium Monopersulfate	70693-62-8	15-25%
Sodium Carbonate	497-19-8	75-85%

**SECTION 4 FIRST-AID MEASURES**

**General Advice:** Consult a physician. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**SECTION 5 FIRE FIGHTING MEASURES**

**Extinguishing Media**

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

**Special hazards arising from the substance or mixture:** Carbon oxides, Sulphur oxides, Potassium oxides, Magnesium oxide.

**Hazardous Combustion Products:** Grinding or intensive mixing may cause decomposition with liberation of heat and oxygen; ignition of oxidizable material if present may occur.

**Advice for Firefighters:** Wear self contained breathing apparatus for firefighting if necessary.

**Further Information:** Use water spray to cool unopened containers. Contact with combustible materials may cause fire. Improper storage of large masses of "oxone" can trap heat and lead to ignition of combustibles (see "SECTION 7: **HANDLING AND STORAGE**").



SAFETY DATA SHEET  
Non-Chlorine Winter Shock Mixture- 0122

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental Precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7 **HANDLING AND STORAGE**

**Precautions for Safe Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition – No smoking. Keep away from heat and sources of ignition.

**Special Handling Requirements:** Do not inhale. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash clothing after use.

**Conditions for Safe Storage:** Keep container tightly closed in a dry and well-ventilated place away from heat sources.

**Incompatible Materials:** The mixture of this product with compounds containing halides or active halogens can cause release of the respective halogen if moisture is present. For example, mixture with chloride can cause release of chlorine gas; mixture with cyanides can cause release of hydrogen cyanide gas; and heavy metal salts such as those of cobalt, nickel, copper, or manganese cause the evolution of oxygen.

**Specific End Use(s):** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

**Exposure Controls**

**Appropriate Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued

**Personal Protective Equipment:**

**Eye/Face Protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

**Control of Environmental Exposure:** Do not let product enter drains.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White Granular
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	10.67 (1% Solution)
<b>Melting Point/Freezing Point:</b>	Not Available
<b>Initial Boiling Point and Boiling Range:</b>	@ 760 mm Hg Decomposes
<b>Flash Point:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Flammability (solid, gas):</b>	Not Available
<b>Upper/Lower Flammability or Explosive Limits:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	1.100 - 1.400 g/cm <sup>3</sup>
<b>Water Solubility:</b>	25.6 wt% @ 20°C (68°F)
<b>Partition Coefficient (n-octanol/water):</b>	Not Available
<b>Auto-ignition Temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	kJ/kg 251 and Btu/lb 108
<b>Viscosity:</b>	Not Available
<b>Explosive Properties:</b>	Not Available
<b>Oxidizing Properties:</b>	Not Available





SAFETY DATA SHEET  
Non-Chlorine Winter Shock Mixture- 0122

SECTION 10 **STABILITY AND REACTIVITY**

**Reactivity:** Not Available

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Not Available

**Conditions to Avoid:** Excess heat.

**Incompatible Materials:** Strong bases, Acids, Bases, Powdered metals, Strong oxidizing agents, Organic materials, Alcohols, acids, phosphorous, Halogens, Anhydrides, Phosphorus, Strong reducing agents

**Hazardous Decomposition Products:** Decomposes when heated or dampened, releasing oxygen and heat of decomposition.

SECTION 11 **TOXICOLOGICAL INFORMATION**

**Oral LD50 (rat):** 2,000 mg/kg

**Dermal LD50 (rabbit):** > 11,000 mg/kg

**Inhalation 4-hr LC50 (rat):** >5 mg/L

**Skin Irritation:** Severe skin irritant.

**Eye Irritation:** Severe eye irritant.

**Skin Sensitization:** Not a skin sensitizer in animals.

**Germ Cell Mutagenicity:** Not Available

**Carcinogenicity**

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.

**Reproductive Toxicity:** Not Available

**Specific Target Organ Toxicity - Single Exposure:** Not Available

**Specific Target Organ Toxicity - Repeated Exposure:** Not Available

**Aspiration Hazard:** Not Available

SECTION 12 **ECOLOGICAL INFORMATION**

**Aquatic Toxicity:** Not Available

**Ecotoxicity:** Not Available.

**Mobility in Soil:** Not Available.

**Products of Biodegradation:** Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Results of PBT and vPvB Assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.



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**SECTION 13      *DISPOSAL CONSIDERATIONS***

**Waste Treatment Methods**

**Product:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated Packaging:** Dispose of as unused product.

**SECTION 14      *TRANSPORTATION DATA***

<b>DOT:</b>	<b>UN Number:</b>	Cleaning Mixture N.O.S.
	<b>UN Proper Shipping Name:</b>	Cleaning Mixture N.O.S.
	<b>Transport Hazard Class:</b>	Cleaning Mixture N.O.S.
	<b>Packing Group:</b>	Cleaning Mixture N.O.S.

*Consumer commodity* (ORM-D) means a material that is packaged and distributed in a form intended or suitable for sale through retail sales agencies or instrumentalities for consumption by individuals for purposes of personal care or household use. Valid until December 31, 2020.



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**SECTION 15      REGULATORY INFORMATION**

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Reactivity Hazard, Acute Health Hazard

<b>Massachusetts Right To Know Components</b>	<b>CAS-No.</b>	<b>Revision Date</b>
Magnesium Carbonate	546-93-0	

<b>Pennsylvania Right To Know Components</b>	<b>CAS-No.</b>	<b>Revision Date</b>
Sodium Carbonate	497-19-8	
Potassium Sulfate	7778-80-5	
Potassium Bisulfate	7646-93-7	

<b>New Jersey Right To Know Components</b>	<b>CAS-No.</b>	<b>Revision Date</b>
Sodium Carbonate	497-19-8	
Potassium Sulfate	7778-80-5	
Potassium Bisulfate	7646-93-7	

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16      ADDITIONAL INFORMATION**

**Hazard Ratings:**

NFPA: Health - 1;	Fire Hazard - 0;	Reactivity Hazard - 1;	Special Hazard.I - OX
HMS: Health - 1;	Flammability - 0;	Physical Hazard - 1	

Representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

Date: 5/18/17  
Phoenix Products Company

**SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1**

**Product Name:** Winter Clarifier  
**Product Id:** 5700  
**Synonyms:** Superfloc A-100  
**Date:** 01-11-2016  
**Edition:** 2  
**Product Use:** Water clarification for swimming pools, spas and hot tubs.  
**Supplier Identification:** Kemira Chemicals, Inc.  
1000 Parkwood Circle, Suite 500  
Atlanta, GA 30339  
770-436-1542  
**Sold By:** Baleco International Inc.  
3200 Stateline Road  
North Bend, Ohio 45052  
513-353-3000

**Emergency Telephone Number:** CHEMTREC 1-800-424-9300 / 1-703-527-3887. For product information call 1-800-347-1542.

**SECTION 2. HAZARDS IDENTIFICATION 2**

**Classification of the substance or mixture** This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard's (29CFR 1910.1200) implementation of the Globally Harmonized System (GHS), i.e., material is not a dangerous substance or mixture requiring GHS classification according to the US GHS regulations.

**GHS-Labeling** Product is not hazardous under US GHS

**Other hazards which do not result in classification**

**Advice:** Spills are very slippey.  
**Skin:** Repeated or prolonged exposure may cause skin irritation.  
**Eyes:** Dust contact with the eyes can lead to mechanical irritation.  
**Ingestion:** Essentially non-toxic.  
**Chronic Exposure:** No known carcinogenic or other chronic effects.

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

**Substances / Mixtures**

Chemical nature Anionic polyacrylamide.

**Further Information:** This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**SECTION 4 FIRST AID MEASURES 4**

**Description of first aid measures**

**Inhalation:** No hazards which require special first aid measures. Remove to fresh air.  
**Skin Contact:** Wash off with plenty of soap and water.  
**Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. If possible, use lukewarm water.  
**Ingestion:** Rinse mouth with water. Material is not expected to be harmful by ingestion. Never

give anything by mouth to an unconscious person. Do Not induce vomiting.  
Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

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## **SECTION 5** **FIRE FIGHTING MEASURES** **5**

<b>Suitable Extinguishing Media:</b>	Water Spray; Carbon Dioxide (CO <sub>2</sub> ); Dry Chemical; Water Mist.
<b>Specific hazards arising from the Substance or mixture</b>	Dust may be explosive if mixed with air in critical proportions and in the presence of a source of ignition.
<b>Special Protective Equipment for Firefighters:</b>	Wear self-contained breathing apparatus and protective suit. Use Niosh/MSHA approved respiratory protection.
<b>Further information</b>	Avoid dust accumulation.

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## **SECTION 6** **ACCIDENTAL RELEASE MEASURES** **6**

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

For personal protection see section 8.

### **Environmental precautions:**

Should not be released into the environment.

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

Product is slippery. Use an absorbant material to soak up spills. Shovel into suitable container for Disposal. After cleaning, flush away traces with water.

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## **SECTION 7** **HANDLING AND STORAGE** **7**

<b>Precautions for safe handling:</b>	For personal protection see section 8. If in dry form avoid dust Formation during handling.
<b>Conditions for safe storage Including any incompatibilities</b>	Store in original container. Materials to avoid: Strong oxidizing agents
<b>Storage Stability</b>	
<b>Storage temperature</b>	40 – 90° F
<b>Other data</b>	Stable under recommended storage conditions. Reason: integrity.

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## **SECTION 8** **EXPOSURE CONTROLS / PERSONAL PROTECTION** **8**

### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Ensure that eyewash stations and safety showers are close to the workstation. Ensure adequate ventilation.

### **Individual protection measures, such as personal protective equipment**

#### **Respiratory protection**

When working with dry form and there is potential for airborne Exposures in excess of applicable limits, wear NOSH/MSHA approved respirator protection.

#### **Hand protection**

Glove material: Impervious gloves. Avoid contact with skin.

#### **Skin and body protection**

Protective clothing.

#### **Eye protection**

Safety glasses or goggles.

#### **Environmental exposure control**

no data available.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9

### Information on basic physical and chemical properties

<b>Physical state:</b>	Liquid
<b>Color:</b>	Clear to Blue
<b>Odor:</b>	Odorless
<b>pH:</b>	6 – 8 (0.5%) Aqueous solution
<b>Melting point/range:</b>	Not available
<b>Freezing point:</b>	Not applicable
<b>Initial boiling point and Boiling range</b>	Not determined
<b>Flash point:</b>	Not applicable
<b>Explosive properties:</b>	
<b>Lower explosion limit:</b>	No data available
<b>Upper explosion limit:</b>	No data available
<b>Vapor pressure:</b>	Not applicable
<b>Bulk density:</b>	650 – 850 kg/m <sup>3</sup>
<b>Water solubility:</b>	Limited by viscosity
<b>Partition Coefficient (n-octanol/water):</b>	Not available
<b>Decomposition temperature:</b>	392°F
<b>Oxidizing properties:</b>	The substance or mixture is not classified as oxidizing
<b>Surface Tension</b>	Not applicable

## SECTION 10 STABILITY AND REACTIVITY

10

### Reactivity Chemical Stability

#### Possibility of hazardous reactions

<b>Hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None Known. Stable under normal conditions.
<b>Materials to avoid:</b>	Strong Oxidizing Agents.
<b>Hazardous decomposition Products</b>	Ammonium Carbon oxides (CO <sub>x</sub> ) Nitrogen oxides (NO <sub>x</sub> )
<b>Thermal decomposition</b>	392°F

## SECTION 11 TOXICOLOGICAL INFORMATION

11

### Information on toxicological effects

<b>Acute oral toxicity</b>	Conclusion: The acute toxicological results displayed may not be the results of actual testing of this material but based on a similar tested material. Remarks: estimated /Rat/> 5,000 mg/kg/LD50
<b>Acute inhalation toxicity</b>	LC50/Rat/4 h/> 20 mg/lRemarks: estimated
<b>Acute dermal toxicity</b>	LD50/Rabbit /> 10,000 mg/kg Remarks: estimated

**Skin corrosion/irritation**  
**Serious eye damage/eye irritation**  
**Respiratory or skin sensitization**

Conclusion: No skin irritation

Conclusion: No eye irritation

Conclusion: Not sensitizing.

**Germ cell mutagenicity**

**Genotoxicity in vitro**

AMES test: Remarks: No data available.

**Carcinogenicity**  
**Reproductive toxicity**

based on available data, the classification criteria are not met.

## SECTION 12

## ECOLOGICAL INFORMATION

12

### Ecotoxicity effects

**Aquatic Toxicity:** Remarks: Ecotoxicological information is based on a structurally or compositionally similar product.

LC50/96hr/Lepomis macrochirus (bluegill sunfish)/Acute toxicity/OECD Test Guideline 203: > 100 mg/l  
Remarks: fresh water.

LC50/96/hr/Oncorhynchus mykiss (rainbow trout)/Acute toxicity/OECD Test Guideline 203: > 100 mg/l  
Remarks: fresh water.

EC50/48hr/Daphnia magna (Water flea)/Immobilization/OECD Test Guideline 202: > 100 mg/l  
Remarks: Ecotoxicological information is based on a structurally or compositionally similar product.

IC50/72hr/Green algae (Selenastrum capricornutum)/Growth inhibition/OECD Test Guideline 201: >100 mg/l  
Remarks: Ecotoxicological information is based on a structurally or compositionally similar product.

**Toxicity to other organisms:** No data available.

### Persistence and degradability

**Biological degradability:** Remarks: Ecotoxicological information is based on a structurally or compositionally similar product.

CO<sub>2</sub> Evolution Test/OECD Test Guideline 301B/28 d: <70%

The polymeric ingredient is not readily biodegradable.

**Bioaccumulative potential:** Bioaccumulation is unlikely. Because of the high molecular weight of the polymer diffusion through biological membranes is very small.

Partition coefficient: n-octanol/water: not applicable.

**Other adverse effects:** No data available. Additional ecological information: Ecotoxicological information is based on a structurally or compositionally similar product. This material is not classified as dangerous to the environment. The effects on aquatic organisms are due to an external (non-systemic) mode of action and are significantly reduced (by a factor of 7-20) within 30 minutes due to the binding of the product to dissolved organic carbon and inorganic sorbents such as clays or silts.

## SECTION 13

## DISPOSAL CONSIDERATIONS

13

**Product:**

If recycling is not practical, dispose of in compliance with local Regulations. Incineration is not recommended.  
EPA Hazardous Waste – NO.

**Contaminated Packaging:**

Packages must be disposed of according to local and national regulations.

## SECTION 14

## TRANSPORT INFORMATION

14

<b>Land Transport</b>	Not classified as dangerous in the meaning of transport regulations.
<b>Sea Transport</b>	Not classified as dangerous in the meaning of transport regulations.
<b>Air transport</b>	Not classified as dangerous in the meaning of transport regulations.
<b>Special precautions for user</b>	None known.

## SECTION 15

## REGULATORY INFORMATION

15

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### SARA Title III Section 311 Categories:

Immediate (Acute) Health Effects:	No
Delayed (Chronic) Health Effects:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

**US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40CFR 355, Appendix A):** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40CFR 372.65) – Supplier Notification Required:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Proposition 65

Acrylamide (79-06-1) % (<+0.05). Remarks: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Notification Status: All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory

#### Notification status

All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.

All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).

All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.

All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the Australian Inventory of Chemical Substances (AICS).

All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.

All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.

All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.



All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.

All components of this product are included in the New Zealand inventory (NZIoC) or are not required to be listed on the New Zealand inventory(NZIoC).

## SECTION 16

## OTHER INFORMATION

16

NFPA:



HMIS:



The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information related 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 text. This information should be available to all who will use, handles, store, transport, or otherwise be exposed to this product. This Information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Baleco believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is. Additionally, if this safety data sheet is more than three years old, you should contact Baleco at The phone number listed in section 1 to verify the safety data sheet is current.

This SDS is prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Baleco Int'l Inc be responsible for damages of any nature whatsoever resulting from the use or reliance upon information.

Reason(s) for Revision:           3 year review  
                                                  Updates to all sections to bring into compliance.

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End of Safety Data Sheet