

# SAFETY DATA SHEET

Product Name: BioSentry® Chlor-A-Foam™  
Issue Date: June 1<sup>st</sup>, 2015  
Replaces: New Issue  
SDS Number: HAC0013 - COL

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## 1. PRODUCT IDENTIFICATION

Product Name: **BioSentry® Chlor-A-Foam™**  
Product Number(s): D12709702-COL, D12695561-COL  
Use: Cleaner  
Manufacturer: HACCO, Inc.  
110 Hopkins Drive  
Randolph, WI 53956  
Manufacturer Phone: 1-920-326-5141  
Distributor: Neogen Corporation – Animal Safety  
944 Nandino Boulevard  
Lexington, KY 40511  
Distributor Phone: 1-800-477-8201  
**Emergency Phone: Medical: 1-651-523-0318**  
**Spill: 1-703-527-3887**

## 2. HAZARDS IDENTIFICATION

Classifications: Specific Target Organ Toxicity: Respiratory Irritation, Category 3  
Carcinogenicity: Category 1A  
Specific Target Organ Toxicity: Repeated Category I  
Dermal: Category 3

Signal Word (EPA): DANGER

Signal Word (OSHA): DANGER

Hazard Statements: Toxic in contact with skin.  
May cause respiratory irritation.  
Causes damage to organs through prolonged or repeated exposure



Hazard Symbols:

Precautionary Statements: Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust.  
Wash hands and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, protective clothing, eye protection.  
If on skin: Wash with plenty of soap and water.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If exposed or concerned: Get medical advice/attention.  
Call a poison control center, doctor or 1-651-523-0318 (Prosar) if you feel unwell.  
Take off immediately all contaminated clothing and wash it before reuse.  
Store locked up.  
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: This product presents no significant hazards under normal conditions of use.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Potassium Hydroxide	Potassium Hydroxide	1310-58-3	1 – 5%
Sodium Hypochlorite	Sodium Hypochlorite	7681-52-9	1 – 5%
Detergent Booster	Detergent Booster	9016-45-9	0.1 – 1%
Foam Booster	Foam Booster		0.1 – 1%
Emulsifier	Emulsifier		1 – 5%
Chelating & Sequestering Agent	Chelating & Sequestering Agent		1 – 5%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

## 4. FIRST AID MEASURES

Have the product container, label, or Material Safety Data Sheet with you when calling 800-498-5743, a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call 1-651-523-0318, a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 1-651-523-0318 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call 1-651-523-0318, a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Wash skin with soap and water.

Inhalation: Not applicable.

### Most Important Symptoms/Effects:

This product may cause irritation with discomfort, tearing or blurred vision, eye corrosion with corneal or conjunctival ulceration, rash, skin burns or ulcerations, irritation of the upper respiratory tract with coughing or discomfort, corrosion to the mouth and upper gastrointestinal tract with abdominal discomfort, nausea, severe pain, diarrhea and possible collapse.

### Indication of immediate medical attention and special treatment needed:

Not Applicable.

Further information is available from the ProSAR Emergency Number (1-651-523-0318) provided in this documents.

## 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO<sub>2</sub> extinguishing media. If water is to be used to fight fire, dike and collect run-off.

Specific Hazards:

During a fire, irritating and possible toxic gases may be generated by thermal decomposition of combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or product of combustion.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Clean up spills immediately, observing precautions outlines in Section 8. Sweep up material and place in a compatible disposal container. Once all material is collected, seal container and arrange for disposition.

## 7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure rea out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Store locked up.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING, AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

### Occupational Exposure Limit

<u>Chemical Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER</u>	<u>SOURCE</u>
Potassium Hydroxide	Not Established	2 mg/m <sup>3</sup> (Ceiling)	Not Established	Not Applicable
Sodium Hypochlorite	Not Established	Not Established	Not Established	Not Applicable
Detergent Booster	Not Established	Not Established	Not Established	Not Applicable
Foam Booster	Not Established	Not Established	Not Established	Not Applicable
Emulsifier	Not Established	Not Established	Not Established	Not Applicable
Chelating & Sequestering Agent	Not Established	Not Established	Not Established	Not Applicable

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Eye protection is not required for normal handling. Where eye contact is likely, wear tight-fitting chemical goggles.

Skin Contact: Gloves are not required for normal handling. Where heavy contact is likely, wear chemical resistant (such as nitrile or butyl) gloves.

Inhalation: Respiratory protection is not required for normal handling. In the event of an unusual dust exposure, use engineering controls or a NIOSH-approved particulate respirator (N, P, R, or HE filter) to keep exposure below the Occupational Exposure Limit.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, yellow liquid  
Odor: Chlorine  
pH: 13.5-14.5  
Melting Point: Not Applicable  
Freezing Point: Not Available  
Boiling Point and Boiling Range: >100°C  
Flash Point (Test Method): Not Available  
Flammable Limits (% in air): Not Available  
Flammability: Not Available  
Vapor Pressure: Not Available  
Vapor Density: 1.15 g/ml  
Relative Density: 9.18-10.01lbs/gal  
Solubility (ies): Soluble  
Partition Coefficient: Not Available  
Viscosity: Not Available  
Other: Not Available

## 10. STABILTY AND REACTIVITY

Reactivity: Not reactive  
Chemical Stability: Stable under normal use and storage conditions  
Possible Hazardous Reactions: Will not occur  
Conditions to Avoid: None known  
Incompatible Materials: Incompatible with acids, ammonia and amines.  
Hazardous Decomposition Products: Hazardous gases/vapors produced are chlorine gas, Hydrogen Chloride, and phosphorus oxides.

## 11. TOXICOLOGICAL INFORMATION

### Health Effects Information

Likely routes of exposure: Dermal, Inhalation, Ingestion  
Symptoms of exposure: This product may cause irritation with discomfort, tearing or blurred vision, eye corrosion with corneal or conjunctival ulceration, rash, skin burns or ulcerations, irritation of the upper respiratory tract with coughing or discomfort, corrosion to the mouth and upper gastrointestinal tract with abdominal discomfort, nausea, severe pain, diarrhea and possible collapse.

Delayed, immediate and chronic effects of exposure: Not Available

### Numerical Measures of Toxicity (Acute Toxicity/Irritation Studies)

Ingestion:	Oral LD <sub>50</sub> (Rat):	365 mg/kg body weight	(Potassium Hydroxide)
	Oral LD <sub>50</sub> (Rat):	>8910 mg/kg body weight	(Sodium Hypochlorite)
Dermal:	Dermal LD <sub>50</sub> (Rabbit):	>7940 mg/kg body weight	(Potassium Hydroxide)
	Dermal LD <sub>50</sub> (Rabbit):	>10000 mg/kg body weight	(Sodium Hypochlorite)
Inhalation:	Inhalation LC <sub>50</sub> (Rat,0.25 hour):	10.5 mg/L	(Sodium Hypochlorite)
Eye Contact:	Risk of Severe Damage to Eyes		
Skin Contact:	Sever Skin Irritation.		
Skin Sensitization:	Not a skin sensitizers, corrosive.		

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Tetra potassium Pyrophosphate:	The dry material may cause foreign body irritation in some individuals. Prolonged contact with the dry material may cause drying or chapping of skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration. Following repeated exposure (13 weeks) to this product in their food, kidney damage with changes in body weight, food consumption, clinical parameters and organ weights were reported at high dose levels in rats.
Potassium Hydroxide:	The compound is corrosive to skin and eyes, and is untested for animal sensitization. Toxic effects described in animals from short exposures by inhalation, ingestion, or skin contact include: corrosion of mucosal surfaces. No animal test reports are available to define carcinogenic, mutagenic, developmental, or reproductive hazards.
Potassium Silicate:	The compound is not a DOT skin corrosive. A 30% aqueous solution is an eye irritant, but the powder is an eye corrosive. The compound is untested for animal sensitization. The effects in animals from acute, subchronic or chronic exposures by inhalation or ingestion have not been determined. No animal test reports are available to define carcinogenic, mutagenic, developmental, or reproductive hazards.
Lauryl Dimethyl Amine Oxide:	Not a corrosive. Moderate to severe irritant under conditions of test. Not a mutagen. Cell transformation was not induced. No indication of carcinogenic potential under study conditions.
Sodium Polyacrylate:	No significant effects in rats or dogs fed with resin as 5% of diet for 6 ½ months. No evidence of irritation or sensitization during human patch testing.
Sodium Hypochlorite:	The concentrated solution is corrosive to the skin, and a 5% solution is a severe eye irritant, but the compound is untested for animal sensitization. Solutions containing more than 5% available chlorine are classified as DOT corrosive. Ingestion: Toxicity described in animals from single exposures include muscular weakness and hypoactivity. Repeated exposure in animals caused an increase in the relative weight of adrenal glands in one study, but no pathological changes were observed in two other studies. Long-term administration of the compound in drinking water of rats caused depression of the immune system. Skin: No adverse changes were observed in an eight week dermal study of a 1% solution in guinea pigs. Tests in animals demonstrate no carcinogenic activity by either the oral or dermal routes. Tests in bacterial and mammalian cell cultures demonstrate mutagenic activity. No animal test reports are available to define developmental or reproductive hazards.

## Reproductive/Developmental Effects

Not Available

## Chronic/Subchronic Toxicity Studies

Not Available.

## Carcinogenicity

Unlikely to be carcinogenic.

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## Other Toxicity Information

Systemically toxic concentrations of this product will probably not be absorbed through human skin.  
No toxic effects are known to be associated with inhalation of dust from this material.  
No irritation is likely to develop following contact with human eyes.  
Irritation will probably not develop following contact with human skin.

## Toxicity of Other Components

Not Applicable

## Target Organs

### Active Ingredients

Not Applicable

### Inactive Ingredients

Not Applicable

## 12. ECOLOGICAL INFORMATION

Do not discharge effluent containing this product directly to water. Do not contaminate water when disposing of equipment wash water.

### Eco-Acute Toxicity

Potassium Hydroxide:	Mosquito Fish	96-hour EC <sub>50</sub>	80-85mg/L
Tetra potassium Pyrophosphate:	Mysid Shrimp	96-hour EC <sub>50</sub>	>100 mg/L
	Rainbow Trout	96-hour EC <sub>50</sub>	>100 mg/L
	Daphnia Magna	48-hour EC <sub>50</sub>	>100 mg/L
Sodium Hypochlorite:	Fathead Minnows	96-hour EC <sub>50</sub>	5.9 mg/L

## 13. DISPOSAL CONSIDERATIONS

Disposal: Do not reuse empty container except for holding additional product.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

## 14. TRANSPORT INFORMATION

### DOT Classification

Proper Shipping Name:	Corrosive liquid, Basic, Inorganic, N.O.S. (Potassium Hydroxide)
Hazard Class:	8
UN Number:	3266
Packing Group:	III
Label:	Corrosive
Special Instructions:	Consumer Commodity, OMR-D for packages 1 gallon or less

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## IMDG Classification

Proper Shipping Name: Corrosive liquid, Basic, Inorganic, N.O.S. (Potassium Hydroxide)  
Hazard Class: 8  
UN Number: 3266  
Packing Group: III  
Label: Corrosive  
Special Instructions: Not Applicable

## IATA Classification

Proper Shipping Name: Corrosive liquid, Basic, Inorganic, N.O.S. (Potassium Hydroxide)  
Hazard Class: 8  
UN Number: 3266  
Packing Group: III  
Label: Corrosive  
Special Instructions: Not Applicable

## Canadian Classification

Proper Shipping Name: Corrosive liquid, Basic, Inorganic, N.O.S. (Potassium Hydroxide)  
Hazard Class: 8  
UN Number: 3266  
Packing Group: III  
Label: Corrosive  
Special Instructions: Not Applicable

## 15. REGULATORY INFORMATION

### Pesticide Registration

This chemical is a pesticide product regulated by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

Caution: Harmful if swallowed or absorbed through skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing. All handlers (including applicators) must wear shoes plus socks, and gloves. Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

Registration Number : Not Required

EPA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Not Applicable

California Proposition 65 : Not Applicable

CERLA/SARA 302 Reportable Quantity (RQ) : None

RCRA Hazardous Waste Classification (40 CFR 261): Not Applicable

TSCA Status: Exempt from TSCA, subject to FIFRA

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## 16. OTHER INFORMATION

### NFPA Hazard Ratings

Health: 3  
Flammability: 0  
Instability: 1

### HMIS Hazard Ratings

Health: 3  
Flammability: 0  
Reactivity: 1  
Other: H

0 - Minimal  
1 - Slight  
2 - Moderate  
3 - Serious  
4 - Extreme  
\* - Chronic

For Non-Emergency Questions About This Product Call:

1-800-621-8829

Neogen Corporation  
Lexington, KY

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