

SAFETY DATA SHEET

Product Name: BioSentry® Liquid Tray & Egg Wash
Issue Date: June 1st, 2015
Replaces: New Issue
SDS Number: HAC0029

1. PRODUCT IDENTIFICATION

Product Name: **BioSentry® Liquid Tray & Egg Wash**
Product Number(s): D12709646, D127095698, D12695708
Use: Cleaner
Manufacturer: HACCO, Inc.
110 Hopkins Drive
Randolph, WI 53956
Manufacturer Phone: 1-920-326-5141
Distributor: HACCO, Inc.
110 Hopkins Drive
Randolph, WI 53956
Distributor Phone: 1-800-477-8201
Emergency Phone: **Medical: 1-800-498-5743 (United States and Canada)**
Spill: 1-800-424-9300 (United States)

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.
May cause cancer.
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 1-800-498-5743 (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	7 – 13%
Sodium Hypochlorite	Sodium Hypochlorite	7681-52-9	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 1-800-498-5743, 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 1-800-498-5743 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 1-800-498-5743, 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:

Discomfort, tearing or blurring of vision, eye corrosion with corneal or conjunctival ulceration, rash, skin burns or ulceration, coughing, nausea, severe pain, diarrhea and possible collapse.

Indication of immediate medical attention and special treatment needed:

Not Available

Further information is available from the ProSAR Emergency Number (1-800-498-5743) provided in this documents.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO₂ 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.

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.

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7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area 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	Ceiling 2 mg/m ³	Not Established	Not Applicable
Sodium Hypochlorite	Not Established	Not Established	2 mg/m ³ (15-min TWA) (WEEL/AIHA)	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:** Wear coverall chemical splash goggles. Additionally, wear a face shield where the possibility exists for face contact due to splashing or spraying of material.
- Skin Contact:** Where there is a potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, jacket, hood and boots or whole bodysuit.
- Inhalation:** Use only with adequate ventilation. Wear a NIOSH/MSHA-approved pesticide respirator with an organic vapor cartridge and pesticide pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow/straw colored liquid.
Odor:	Chlorine
pH:	12 – 13 (at a 2% concentration)
Melting Point:	Not Available
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:	1.14 g/ML
Relative Density:	9.51 lbs/gallon
Solubility (ies):	Soluble
Partition Coefficient:	Not Available
Viscosity:	Not Available
Other:	Not Available

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10. STABILITY AND REACTIVITY

Reactivity: Not reactive
Chemical Stability: Stable under normal use and storage conditions
Possible Hazardous Reactions: Will not occur
Conditions to Avoid: Decomposition with heat.
Incompatible Materials: Acids, ammonia and aluminum. Contact with acids or amines generate a toxic and possibly explosive gas. Contact of concentrate with aluminum can generate flammable hydrogen gas.
Hazardous Decomposition Products: Decomposes with heat. Hazardous gasses or vapors can be released, including chlorine.

11. TOXICOLOGICAL INFORMATION

Health Effects Information

Likely routes of exposure: Dermal, inhalation, ingestion
Symptoms of exposure: Discomfort, tearing or blurring of vision, eye corrosion with corneal or conjunctival ulceration, rash, skin burns or ulceration, coughing, 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 ₅₀ (Rat):	365 mg/kg body weight	(Potassium Hydroxide)
	Oral LD ₅₀ (Rat):	>8910 mg/kg body weight	(Sodium Hypochlorite)
Dermal:	Dermal LD ₅₀ (Rabbit):	>10000 mg/kg body weight	(Sodium Hypochlorite)
Inhalation:	Inhalation LC ₅₀ (Rat):	10.5 mg/L	(Sodium Hypochlorite)
Eye Contact:	See "Other Toxicity Information, Section 11"		
Skin Contact:	See "Other Toxicity Information, Section 11"		
Skin Sensitization:	Not Available		

Reproductive/Developmental Effects

Not Available

Chronic/Subchronic Toxicity Studies

Not Applicable

Carcinogenicity

Not Applicable

Other Toxicity Information

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.

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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 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 an 1% solution in guinea pigs.
Tests on animals demonstrate no carcinogenic activity by either 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.

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-Toxicity

Potassium Hydroxide	Mosquito Fish	96-hr LC ₅₀	80-85 mg/L
Sodium Hypochlorite	Fathead Minnow	96-hr LC ₅₀	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

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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: OMR-D for Container Sizes 1 gallon or less.

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

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.

EPA 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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