

# SAFETY DATA SHEET

Product Name: BioSentry® Liquid Tray & Egg Wash  
Issue Date: June 1<sup>st</sup>, 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.

# SAFETY DATA SHEET

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

---

## 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 Prostar Emergency Number (1-800-498-5743) 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.

## 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.

# SAFETY DATA SHEET

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

---

## 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 <sup>3</sup>	Not Established	Not Applicable
Sodium Hypochlorite	Not Established	Not Established	2 mg/m <sup>3</sup> (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 overall 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

# SAFETY DATA SHEET

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

---

## 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 <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):	>10000 mg/kg body weight	(Sodium Hypochlorite)
Inhalation:	Inhalation LC <sub>50</sub> (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.

# SAFETY DATA SHEET

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

---

**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 <sub>50</sub>	80-85 mg/L
Sodium Hypochlorite	Fathead Minnow	96-hr LC <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

# SAFETY DATA SHEET

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

---

## 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

# SAFETY DATA SHEET

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

---

## 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

BioSentry® is a Registered Trademark of BioSentry, Inc.; Used Under Exclusive License by Neogen Corporation.

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN (HEREINAFTER "INFORMATION") ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT, HACCO, INC., THE MANUFACTURER OR THE SELLER MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY THEREOF. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING IT WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE.

THE PRODUCT COVERED BY THIS INFORMATION SHEET IS FURNISHED "AS IS" BY HACCO, INC., THE MANUFACTURER OR THE SELLER, AND IS SUBJECT ONLY TO THE WARRANTIES, IF ANY, THAT APPEAR ON THE PRODUCT'S LABEL OR ARE OTHERWISE EXPRESSLY PROVIDED HEREIN.

EXCEPT AS EXPRESSLY PROVIDED ON THE PRODUCT'S LABEL OR OTHERWISE PROVIDED HEREIN, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, ARE MADE BY HACCO, INC., THE MANUFACTURER OR THE SELLER WITH REGARD TO THE PRODUCT OR USE OF THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE.

EXCEPT AS EXPRESSLY STATED HEREIN, HACCO, INC., THE MANUFACTURER OR THE SELLER MAKES NO WARRANTY OF RESULTS TO BE OBTAINED BY USE OF THE PRODUCT COVERED BY THIS INFORMATION. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND THE TOTAL LIABILITY OF HACCO, INC., THE MANUFACTURER OR THE SELLER, SHALL BE LIMITED TO DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT. NO AGENT OR EMPLOYEE OF HACCO, INC., THE MANUFACTURER OR THE SELLER IS AUTHORIZED TO AMEND THE TERMS OF THIS WARRANTY DISCLAIMER OR THE PRODUCT'S LABEL OR TO MAKE A REPRESENTATION OR RECOMMENDATION DIFFERENT FROM OR INCONSISTENT WITH THE LABEL OF THIS PRODUCT.

IN NO EVENT SHALL HACCO, INC., THE MANUFACTURER OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES AND THE BUYER AND USER WAIVE ANY RIGHT THEY MAY HAVE TO SUCH DAMAGES.