

SAFETY DATA SHEET

Product Name: BioSentry® Acid Tray Wash
Issue Date: June 1st, 2015
Replaces: New Issue
SDS Number: HAC0003 - COL

1. PRODUCT IDENTIFICATION

Product Name: **BioSentry® Acid Tray Wash**
Product Number(s): D12204609-COL, D12204619-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.

SAFETY DATA SHEET

Product Name: BioSentry® Acid Tray Wash
Issue Date: June 1st, 2015
Replaces: New Issue
SDS Number: HAC0003 - COL

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Phosphoric Acid	Phosphoric Acid	7664-38-2	44.99%
Glycolic Acid	Glycolic Acid	79-14-1	3.00 %

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 non-specific effects such as headache, nausea and weakness. Higher exposures may cause severe irritation of the throat and digestive tract with stomach pain, nausea, vomiting, diarrhea or internal bleeding. Gross overexposure may be fatal.

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 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.

SAFETY DATA SHEET

Product Name: BioSentry® Acid Tray Wash
Issue Date: June 1st, 2015
Replaces: New Issue
SDS Number: HAC0003 - COL

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>
Phosphoric Acid	1 mg/m ³ (TWA)	1 mg/m ³ (TWA) 3 mg/m ³ (STEL)	Not Established	Not Applicable
Glycolic Acid	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, red liquid
Odor:	Musty
pH:	1-2
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:	1.21 g/ml
Relative Density:	9.43-10.26 lbs/gal
Solubility (ies):	Soluble
Partition Coefficient:	Not Available
Viscosity:	Not Available
Other:	Not Available

SAFETY DATA SHEET

Product Name: BioSentry® Acid Tray Wash
Issue Date: June 1st, 2015
Replaces: New Issue
SDS Number: HAC0003 - COL

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 alkalis and chlorinated compounds.
Hazardous Decomposition Products: None known

11. TOXICOLOGICAL INFORMATION

Health Effects Information

Likely routes of exposure: Dermal, Inhalation, Ingestion
Symptoms of exposure: This product may cause non-specific effects such as headache, nausea and weakness. Higher exposures may cause severe irritation of the throat and digestive tract with stomach pain, nausea, vomiting, diarrhea or internal bleeding. Gross overexposure may be fatal.

Delayed, immediate and chronic effects of exposure: Not Available

Numerical Measures of Toxicity (Acute Toxicity/Irritation Studies)

Ingestion:	Oral LD ₅₀ (Rat):	3500 mg/kg body weight	(85% Phosphoric Acid)
	Oral LD ₅₀ (Rat):	1530 mg/kg body weight	(100% Phosphoric Acid)
	Oral LD ₅₀ (Rat):	1938 mg/kg body weight	(Glycolic Acid)
Dermal:	Dermal LD ₅₀ (Rabbit):	>1260 mg/kg body weight	(85% Phosphoric Acid)
	Dermal LD ₅₀ (Rabbit):	2740 mg/kg body weight	(100% Phosphoric Acid)
Inhalation:	Inhalation LC ₅₀ (Rat,1 hour):	>850 mg/m ³	(Phosphoric Acid)
	Inhalation LC ₅₀ (Rat,4 hour):	<3.6 mg/L	(Glycolic Acid – Male Rats)
	Inhalation LC ₅₀ (Rat,4 hour):	>5.2 mg/L	(Glycolic Acid – Female Rats)
Eye Contact:	Not Available		
Skin Contact:	Not Available		
Skin Sensitization:	Not Available		

Phosphoric Acid: Animal testing indicates that Phosphoric Acid is corrosive to the eye and skin. It has not been tested for skin sensitization. Single exposure by ingestion to high doses of Phosphoric Acid caused gastrointestinal irritation and hemorrhage. No animal data are available to define the carcinogenicity, developmental or reproductive hazards of Phosphoric Acid. Phosphoric Acid has not produced genetic toxicity in mammalian cell cultures or in animals.

SAFETY DATA SHEET

Product Name: BioSentry® Acid Tray Wash
Issue Date: June 1st, 2015
Replaces: New Issue
SDS Number: HAC0003 - COL

Glycolic Acid:

70% Glycolic Acid is a skin and eye corrosive. Glycolic Acid is not a skin sensitizer in animals. Toxic effects described in animals from single exposure to Glycolic Acid by inhalation include body weight losses and ocular and nasal discharges. Histopathological changes observed include laryngeal ulceration, nasal lesions, and lung inflammation. Repeated exposures produced liver, spleen, thymus, and gastrointestinal tract effects. Administration of single high oral doses of Glycolic Acid produced gastrointestinal tract irritation, liver damage, increased kidney weights and the formation of calcium oxalate crystals in the kidneys. Repeated oral doses in cats produced mortality, weight and appetite loss, depression, vomiting, coma, convulsions, and kidney failure. Dogs given similar and higher doses exhibited no toxic effects. Repeated oral dosing in rats resulted in excessive mortality, decreased body weight and hematologic and clinical chemistry changes. The primary target organ of toxicity was the kidney. Both organ weight and microscopic changes were seen in kidneys of male rats. No systemic toxicity occurred in female rats. There was no evidence of neurotoxic or immunologic effects with Glycolic Acid from this test. No animal test reports are available to define carcinogenic hazards. At high dietary levels in animals, developmental toxicity occurred only at exposure levels producing other toxic effects in the adult animal. Glycolic Acid is not considered a unique developmental hazard to the conceptus. The compound does not produce genetic damage in bacterial cell cultures. It has not produced genetic damage in tests on animals. There was no evidence of reproductive effects in rats.

Reproductive/Developmental Effects

Not Available

Chronic/Subchronic Toxicity Studies

Not Available.

Carcinogenicity

Unlikely to be carcinogenic.

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

SAFETY DATA SHEET

Product Name: BioSentry® Acid Tray Wash
Issue Date: June 1st, 2015
Replaces: New Issue
SDS Number: HAC0003 - COL

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

Phosphoric Acid:	Mosquito Fish	96-hour EC ₅₀	138 mg/L
Glycolic Acid:	Bluegill Sunfish	24-48-hour EC ₅₀	93 mg/L
	Fathead Minnows	96-hour EC ₅₀	164 mg/L
	Daphnia Magna	48-hour EC ₅₀	141 mg/L
	Freshwater Algae	72-hour EC ₅₀	216 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, Acidic, Inorganic, N.O.S. (Phosphoric Acid)
Hazard Class: 8
UN Number: 3264
Packing Group: III
Label: Class E, Corrosive Metal, Corrosive
Special Instructions: Consumer Commodity, OMR-D for packages 1 gallon or less

IMDG Classification

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic, N.O.S. (Phosphoric Acid)
Hazard Class: 8
UN Number: 3264
Packing Group: III
Label: Class E, Corrosive Metal, Corrosive
Special Instructions: Not Applicable

IATA Classification

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic, N.O.S. (Phosphoric Acid)
Hazard Class: 8
UN Number: 3264
Packing Group: III
Label: Class E, Corrosive Metal, Corrosive
Special Instructions: Not Applicable

Canadian Classification

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic, N.O.S. (Phosphoric Acid)
Hazard Class: 8
UN Number: 3264
Packing Group: III
Label: Class E, Corrosive Metal, Corrosive
Special Instructions: Not Applicable

SAFETY DATA SHEET

Product Name: BioSentry® Acid Tray Wash
Issue Date: June 1st, 2015
Replaces: New Issue
SDS Number: HAC0003 - COL

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

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 0
Instability: 1

HMS Hazard Ratings

Health: 2
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.