

**Hacco, Inc.**  
**110 Hopkins Drive**  
**Randolph, WI 53956**  
**(920) 326-2461**  
**(Regulatory Office)**  
**(920) 326-5141**  
**(Manufacturing Location)**

**In Case of Emergency, Call:**  
**1-800-498-5743 (U.S. Medical Emergency)**  
**1-651-523-0318 (International, Medical Emergency)**  
**1-800-424-9300 (U.S. CHEMTREC)**  
**1-703-527-3887 (International, CHEMTREC)**  
**(collect calls will be accepted on all lines)**

## 1. PRODUCT IDENTIFICATION

Product Name: **Profilm<sup>®</sup> Disinfectant**  
EPA Signal Word: **DANGER**  
Chemical Name: 2-Hydroxymethyl-2-nitro-1,3-propanediol (Tris-hydroxy-methyl-nitromethane)  
Chemical Class: Disinfectant.  
Canadian Drug Identification Number: 02245634

**Section(s) Revised: Regulatory Review**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	Percentage By Weight
2-Hydroxymethyl-2-nitro-1,3-propanediol (CAS No. 126-11-4)	Not Established	Not Established	Not Established	No	19.20
Alkyl (C <sub>12</sub> -67%, C <sub>14</sub> -25%, C <sub>16</sub> -7%, C <sub>8</sub> , C <sub>10</sub> , C <sub>18</sub> -1%) dimethyl benzyl ammonium chloride (CAS No. 68391-01-5)	Not Established	Not Established	Not Established	No	3.08
Formaldehyde (CAS No. 50-00-0)	0.75 ppm (8-hr TWA) 2.00 ppm (STEL)	0.37 mg/m <sup>3</sup> (TLV)	Not Established	Yes (IARC Group 1)	2.28
Inert Ingredients (non-hazardous)	Not Established	Not Established	Not Established	No	75.44

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

## 3. HAZARDS IDENTIFICATION

**DANGER: Primary Routes of Entry of Concern are Eye Contact, Skin Contact, and Inhalation**

### Hazardous Combustion Products

Formaldehyde and/or nitrogen oxides.

### Physical Properties

Appearance: Pink Liquid.  
Odor: Faint formaldehyde odor.

### Unusual Fire, Explosion, and Reactivity Hazards

None known.

## 4. FIRST AID MEASURES

Have the product container, label or product name, DIN number, and Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment. **FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL 1-800-498-5743.**

Ingestion: Call a poison control center or doctor immediately for treatment advice. Induce vomiting. Do not induce vomiting or give anything by mouth to an unconscious person.

- Eye Contact: 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 a poison control center or doctor for treatment advice.
- Skin Contact: Remove all contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
- Inhalation: Move person to fresh air. If person is not breathing, call **911** or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Medical Conditions Likely to be Aggravated by Exposure

None known.

**5. FIRE FIGHTING MEASURES**

Fire and Explosion

- Flash Point (Test Method): > 200°F (aqueous mixture)
- Flammable Limits (% in Air): Lower: % Not Available Upper: % Not Available
- Autoignition Temperature: Not Available
- Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, water spray or fog.

Hazardous Combustion Products:

Formaldehyde and/or nitrogen oxides.

Unusual Fire, Explosion, and Reactivity Hazards

None known.

In Case of Fire

Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear. Avoid using heavy streams of water.

**6. ACCIDENTAL RELEASE MEASURES**

Emergency Action

Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Large Spills:** Dike ahead of liquid spill for later disposal.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**7. HANDLING AND STORAGE**

Handling Procedures: Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage precautions: **KEEP UPRIGHT WHILE MOVING AND IN STORAGE. KEEP FROM FREEZING.** Store in a safe manner in original container only. Do not store under conditions which might adversely affect the container or its ability to function properly. Reduce stacking height where local conditions can affect package strength. Open container in a well-ventilated area, avoid breathing vapour. Keep container tightly closed when not in use.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ventilation: Local ventilation is recommended to keep employee exposures below the Airborne Exposure Limits. Work in well-ventilated areas.

Eye Contact: Chemical goggles or shielded safety glasses.

Skin Contact: Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear chemical resistant gloves (i.e., nitrile or butyl – **gloves must be chemically resistant to formaldehyde**).

Inhalation: Wear a NIOSH approved respirator with a Formaldehyde cartridge if Airborne Exposure Limits are exceeded.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pink liquid  
Odor: Faint formaldehyde odor  
Boiling Point: 220°F  
Specific Gravity: 1.075 g/ml (water=1)  
Bulk Density: 8.97 lbs/gallon  
pH: approximately 7.5  
Solubility in H<sub>2</sub>O: Soluble  
Vapor Pressure: Not Established  
Percent Volatile: 83.14% (by volume)  
Evaporation Rate: Not Established

Note: The physical data presented here are typical values based on material tested, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.  
Hazardous Polymerization: Will not occur.  
Conditions to Avoid: Excessive heat will release formaldehyde and/or nitrogen oxides.  
Materials to Avoid: Acids, bases, and oxidizing materials.  
Hazardous Decomposition Products: Formaldehyde.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Acute Oral (LD<sub>50</sub> Rat): 8,000 mg/kg body weight  
May cause stomach distress, nausea, or vomiting.  
Dermal: Acute Dermal (LD<sub>50</sub> Rabbit): > 2,000 mg/kg body weight  
Inhalation: May cause respiratory tract irritation; probable mucosal damage.  
Eye Contact: (Rabbit) Corrosive; causes irreversible eye damage.  
Skin Contact: (Rabbit) Moderate Skin Irritation

### Carcinogenicity

The component Formaldehyde is listed as a known carcinogen by NTP and IARC.

## 12. ECOLOGICAL INFORMATION

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

## 13. DISPOSAL CONSIDERATIONS

1. Do not reuse empty container.
2. Rinse the emptied container thoroughly and add the rinsings to treatment site.
3. Follow provincial instructions for any required additional cleaning of the container prior to its disposal or reconditioning.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product and the cleanup of spills contact the regional office of Environment Canada.
6. For small spills, recover free liquid. Soak up residue with a solid absorbent such as dry clay. Sweep up spill, and put into disposal container and dispose as per point 5.

**DO NOT FLUSH INTO SURFACE STREAMS.  
INFORM ENVIRONMENT CANADA AS IN POINT 5**

**14. TRANSPORT INFORMATION**

DOT Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Deodorant or Disinfectant, NOI (NMFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

DOT Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (NMFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

IMDG Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Deodorant or Disinfectant, NOI (NMFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

IMDG Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (NMFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

IATA Classification (for container sizes 20 – 200 liter & 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (NMFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

Canadian Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Deodorant or Disinfectant, NOI (NMFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

Canadian Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (NMFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

**15. REGULATORY INFORMATION**

EPA SARA Title III Hazard Classification

Immediate Y Fire N  
Delayed Y Reactive N

Sudden Release of Pressure N

Section 313 Toxic Chemicals

Formaldehyde (CAS No. 50-00-0) 2.28%

California Proposition 65

This product contains Formaldehyde, a chemical known to the state of California to cause cancer.

Reportable Quantity (RQ) CERCLA/SARA 302/DOT

4386 pounds of the formulation, which contains 100 pounds of Formaldehyde.

RCRA Hazardous Waste Classification (40 CFR 261)

Not Listed

**16. OTHER INFORMATION**

NFPA Hazard Ratings

Health: 3  
Flammability: 1  
Instability: 0

HMIS Hazard Ratings

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

0 - Minimal  
1 - Slight  
2 - Moderate  
3 - Serious  
4 - Extreme

For Non-Emergency Questions About This Product Call:

1-800-621-8829

Neogen Corporation

Lexington, KY

Original Issue Date: December 7<sup>th</sup>, 2005

Revision Date: February 6<sup>th</sup>, 2012

Replaces: May 1<sup>st</sup>, 2010

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**NOTICE TO USER**

THIS PRODUCT IS TO BE USED ONLY IN ACCORDANCE WITH THE DIRECTIONS ON THIS LABEL.

**NOTICE TO BUYER**

SELLER'S GUARANTEE SHALL BE LIMITED TO THE TERMS SET OUT ON THE LABEL AND, SUBJECT THERETO, THE BUYER ASSUMES THE RISK TO PERSONS OR PROPERTY ARISING FROM THE USE OR HANDLING OF THIS PRODUCT AND ACCEPTS THE PRODUCT ON THAT CONDITION.