

**Hess & Clark, 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: **DC&R<sup>®</sup> Disinfectant**

EPA Signal Word: **DANGER**

Chemical Name: 2-Hydroxymethyl-2-nitro-1,3-propanediol (Tris-hydroxy-methyl-nitromethane)

Chemical Class: Disinfectant

EPA Registration Number: 134-65

Section(s) Revised: Header (emergency phone numbers)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	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

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

\*\* Disclosure as a toxic chemical is required under Section 313 of Title II of the superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

## 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 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 (U.S. Medical Emergencies) or 1-651-523-0318 (International Medical Emergencies, Collect Calls will be accepted).**

- 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 a poison control center or doctor for treatment advice.
- Skin Contact:** If on skin or clothing: 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.
- Ingestion:** Call a poison control center or doctor immediately for treatment advice. If swallowed: Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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. Prevent material from entering sewers, waterways or low areas.

**Large Spills:** Dike ahead of liquid spill. Absorb into inert material (sawdust, sand, oil dry, or other absorbent material) and place in plastic or plastic-lined containers for proper 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: Store in a dry, well-ventilated area. Avoid freezing or excessive heat.  
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

## 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

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

## 11. TOXICOLOGICAL INFORMATION

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

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

*Plastic Containers:* Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*For containers 1 gallon or less:* Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**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	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
Delayed	<u>Y</u>	Reactive	<u>N</u>		

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

[www.Hacco.com](http://www.Hacco.com)

Original Issue Date: February 12<sup>th</sup>, 2003

Revision Date: September 1<sup>st</sup>, 2008

Replaces: June 4<sup>th</sup>, 2008

DC&R<sup>®</sup> is a Registered Trademark of a Hess & Clark, Inc.

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN (HEREINAFTER "INFORMATION") ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT, HESS & CLARK, 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 HESS & CLARK, 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 HESS & CLARK, 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, HESS & CLARK, 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 HESS & CLARK, INC., THE MANUFACTURER OR THE SELLER, SHALL BE LIMITED TO DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT. NO AGENT OR EMPLOYEE OF HESS & CLARK, 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 HESS & CLARK, 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.