

**Burdick & Jackson*****Material Safety Data Sheet*****Dichloroacetic Acid****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Dichloroacetic Acid  
**OTHER/GENERIC NAMES:** Dichloroacetic Acid  
**PRODUCT USE:** Inorganic Chemical

**MANUFACTURER:** Honeywell, Burdick & Jackson  
1953 South Harvey Street  
Muskegon, MI 49442

**FOR MORE INFORMATION CALL:** (Monday-Friday, 8:00am-5:00pm)  
1-800-368-0050

**IN CASE OF EMERGENCY CALL:** (24 Hours/Day, 7 Days/Week)  
1-800-707-4555 or Chemtrec 1-800-424-9300

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Dichloroacetic Acid	79-43-6	99

Trace impurities and additional material names not listed above may also appear in Section 15 toward the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** . Corrosive. A clear, colorless, slightly pungent liquid which causes severe burns to the skin and eyes. Harmful if swallowed, inhaled or absorbed through the skin

**POTENTIAL HEALTH HAZARDS**

**SKIN:** Causes severe burns. Material is readily absorbed through the skin.  
**EYES:** Causes severe burns with possible permanent damage.

**INHALATION:** Vapors may be harmful if inhaled. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract. Inhalation may result in spasm, inflammation and edema of the throat and lungs , chemical pneumonitis and pulmonary edema.

**INGESTION:** Harmful if swallowed. Can cause burns to the mouth and throat.

**DELAYED EFFECTS:** : Animal data has shown reproductive effects (fetotoxicity). Possible carcinogen.

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Ingredients found on one of the OSHA designated carcinogen lists are listed below.

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>
No ingredients listed in this section.			

**4. FIRST AID MEASURES**

**SKIN:** Immediately remove contaminated clothing. Flush affected area with large amounts of water for at least 15 minutes. Use soap if available. Get medical attention.

**EYES:** Immediately flush eyes with large quantities of water for at least 15 minutes. Get immediate medical attention.

**INHALATION:** Remove victim to fresh air. If breathing has stopped, apply artificial respiration. Get immediate medical attention.

**INGESTION:** If person is conscious, rinse mouth with water. Do not induce vomiting unless directed to do so by a physician. Give water or milk to dilute stomach contents. Get immediate medical attention.

**ADVICE TO PHYSICIAN:** No specific advice. Treat according to symptoms present.

**5. FIRE FIGHTING MEASURES****FLAMMABLE PROPERTIES**

<b>FLASH POINT:</b>	Not applicable.
<b>FLASH POINT METHOD:</b>	Not applicable.
<b>AUTOIGNITION TEMPERATURE:</b>	Not applicable.
<b>UPPER FLAME LIMIT (volume % in air):</b>	Not applicable.
<b>LOWER FLAME LIMIT (volume % in air):</b>	Not applicable.
<b>FLAME PROPAGATION RATE (solids):</b>	Not applicable.
<b>OSHA FLAMMABILITY CLASS:</b>	Not applicable.

**EXTINGUISHING MEDIA:**  
Water spray, foam, carbon dioxide, or dry chemical.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
Emits toxic fumes under fire conditions.

**SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:**  
Use self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**IN CASE OF SPILL OR OTHER RELEASE:**  
Provide ventilation to spill area. Collect (with absorbent material) and place in an approved, labeled waste container. Do not allow to enter into sewers or waterways.

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Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

#### 7. HANDLING AND STORAGE

**NORMAL HANDLING:** (Always wear recommended personal protective equipment.)  
Use with adequate ventilation or in a chemical fume hood. Avoid contact with skin, eyes and clothing. Do not breathe vapor. Wash thoroughly after handling.

**STORAGE RECOMMENDATIONS:**

Store in a cool, dry, well ventilated area. Keep containers upright and tightly closed. Protect containers from physical damage.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:**

Ensure adequate mechanical ventilation.

**PERSONAL PROTECTIVE EQUIPMENT**

**SKIN PROTECTION:**

Rubber gloves and acid-proof protective clothing to prevent skin contact.

**EYE PROTECTION:**

Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices.

**RESPIRATORY PROTECTION:**

Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**ADDITIONAL RECOMMENDATIONS:**

Safety showers and eyewash in close proximity to working area.

**EXPOSURE GUIDELINES**

**INGREDIENT NAME**

**ACGIH TLV**

**OSHA PEL**

**OTHER LIMIT**

\* No ingredients listed in this section\*

\* = Limit established by Honeywell International, Inc.

\*\* = Workplace Environmental Exposure Level (AIHA).

\*\*\* = Biological Exposure Index (ACGIH).

**Burdick & Jackson****MATERIAL SAFETY DATA SHEET****Dichloroacetic Acid****OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:**

None

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Clear, colorless.
<b>PHYSICAL STATE:</b>	Liquid.
<b>MOLECULAR WEIGHT:</b>	129
<b>CHEMICAL FORMULA:</b>	C <sub>2</sub> CHCOOH
<b>ODOR:</b>	Odorless
<b>SPECIFIC GRAVITY (water = 1.0):</b>	1.54 g/cm <sup>3</sup> @68°F (20.°C).
<b>SOLUBILITY IN WATER (weight %):</b>	Miscible
<b>pH:</b>	Acidic.
<b>BOILING POINT:</b>	194.°C..
<b>MELTING POINT:</b>	53.6.°F (12°C).
<b>VAPOR PRESSURE:</b>	0.19 mm Hg @ 68°F (20°C) ; 1 mm Hg @ 111.2°F (44°C)
<b>VAPOR DENSITY (air = 1.0):</b>	4.5
<b>EVAPORATION RATE:</b>	Not determined <b>COMPARED TO:</b> Not applicable.
<b>% VOLATILES:</b>	Not determined
<b>FLASH POINT:</b>	> 200°F (100°C).

(Flash point method and additional flammability data are found in Section 5.)

**10. STABILITY AND REACTIVITY****NORMALLY STABLE? (CONDITIONS TO AVOID):**

Stable under normal conditions.

**INCOMPATIBILITIES:**

Reacts with alkalis and oxidizing agents. Corrosive to metals.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal decomposition may generate carbon monoxide, carbon dioxide, hydrogen chloride and phosgene gas..

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**11. TOXICOLOGICAL INFORMATION****IMMEDIATE (ACUTE) EFFECTS:**Oral (rat) L<sub>50</sub>: 2820 mg/kg.Dermal (rabbit) L<sub>50</sub>: 510 ul/kg.

Rabbit skin: 2 mg/24 hr. - Severe irritation.

Rabbit eye: 50 ug open - Severe irritation.

**DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:**

Animal data has shown reproductive effects (fetotoxicity). Possible carcinogen.

**Burdick & Jackson****MATERIAL SAFETY DATA SHEET****Dichloroacetic Acid****OTHER DATA:**

None.

**12. ECOLOGICAL INFORMATION**

Data not available. Do not allow to enter into sewers or waterways.

**13. DISPOSAL CONSIDERATIONS****RCRA****Is the unused product a RCRA hazardous waste if discarded?** Yes

If yes, the RCRA ID number is: D002

**OTHER DISPOSAL CONSIDERATIONS:** Observe all Federal, State, and Local Environmental regulations.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

**14. TRANSPORT INFORMATION**

<b>US DOT PROPER SHIPPING NAME:</b>	Dichloroacetic Acid,
<b>US DOT HAZARD CLASS:</b>	8,
<b>US DOT ID NUMBER:</b>	UN 1764
<b>PACKING GROUP:</b>	II.
<b>NA EMERGENCY RESPONSE GUIDE</b>	153

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

**15. REGULATORY INFORMATION****TOXIC SUBSTANCES CONTROL ACT (TSCA)****TSCA INVENTORY STATUS:** Material is on the TSCA Inventory.**OTHER TSCA ISSUES:** None.**SARA TITLE III/CERCLA**

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

<b><u>INGREDIENT NAME</u></b>	<b><u>SARA/CERCLA RQ (lb)</u></b>	<b><u>SARA EHS TPQ (lb)</u></b>
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No ingredients listed in this section.

**Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.**

**Burdick & Jackson****MATERIAL SAFETY DATA SHEET****Dichloroacetic Acid**

**SECTION 311 HAZARD CLASS:** Immediate. Delayed.

**SARA 313 TOXIC CHEMICALS:**

The following ingredients are SARA 313 "Toxic Chemicals". CAS numbers and weight percents are found in Section 2.

**INGREDIENT NAME**

**COMMENT**

No ingredients listed in this section.

**STATE RIGHT-TO-KNOW**

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

**INGREDIENT NAME**

**WEIGHT %    COMMENT**

No ingredients listed in this section.

**California Proposition 65 Label Statement**

*Dichloroacetic Acid is listed on one of the California Proposition 65 lists; therefore, the following statement has been placed on the product label:*

*"Warning: This product contains a chemical known to the State of California to cause cancer."*

**ADDITIONAL REGULATORY INFORMATION: None**

**WHMIS CLASSIFICATION (CANADA): Class E**

**FOREIGN INVENTORY STATUS:**

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**16. OTHER INFORMATION**

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**CURRENT ISSUE DATE:** August, 2000

**PREVIOUS ISSUE DATE:** New

**CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:**

**OTHER INFORMATION:**

NFPA Classification	
Health:	3
Flammability:	0
Reactivity:	1