

MATERIAL SAFETY DATA SHEET

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Section I: IDENTIFICATION

Product Name: **Dichloroacetic Acid ~100%**

Date Prepared: 05/5/03

Item Number: 3510-02, 3510-15

Emergency Phone: 800-424-9300

Section II: HAZARDOUS INGREDIENTS

<i>Hazardous Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL(PPM)</i>	NFPA
Dichloroacetic ~100%	79-43-6	NA	Health 3 Flammability 1 Reactivity 0

Note: Vapors are very corrosive!

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~380°F	<i>Specific Gravity (H₂O = 1):</i>	~1.6
<i>Vapor Pressure mm Hg/20°C:</i>	0.975	<i>Percent Volatile by Vol:</i>	NA
<i>Vapor Density (Air 1:1):</i>	4.45	<i>Evaporation Rate (ether = 1):</i>	>0.2 ppm
<i>Solubility in H₂O:</i>	Complete	<i>Appearance & Odor:</i>	Clear liquid, pungent odor

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: 230°F *Flammable Limits:* LEL, NA UEL, NA
Extinguishing Media: Water spray, dry chemical, CO₂ and foam
Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus.
Products of combustion may be harmful in a fire situation. Do not use direct water stream.
Unusual Fire & Explosion Hazards: Vapors are corrosive (alkaline)

Section V: REACTIVITY

Stability: Stable *Material to Avoid:* Strong acids
Hazardous Decomposition or Byproducts: Oxides of carbon, chloroform and hydrogen chloride
Hazardous Polymerization: Does not occur *Conditions to Avoid:* Excessive heat

Section VI: HEALTH HAZARDS

Solutions are very corrosive!

Routes of Entry: Inhalation, Skin and Ingestion
Acute: Vapors and liquid are very corrosive and may cause eyes, skin and respiratory burns and/or irritation.
Chronic: Repeated exposure may cause general deterioration of health by accumulation.
Carcinogenicity: Potential cancer hazard
Signs/Symptoms of Exposure: Eyes, skin and respiratory irritation.

Note: California Proposition 65 states that this product caused cancer, birth defects or other reproductive harm which would require a warning under the statute TSCA 8 (b).

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Section VI: HEALTH HAZARDS

Emergency First Aid:

Skin: Remove contaminated clothing. Wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persist.

Ingestion: Rinse mouth with water, drink large quantities of water or milk provided person is conscious and contact a physician immediately.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Wear respiratory protection. Ventilate area. Isolate the spill area with sand, or other absorbent material. Neutralize with sodium bicarbonate. Place all contaminated material in closed container for disposal.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Normal handling and storage for liquids. Avoid excessive heat.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

Ventilation: Mechanical exhaust is sufficient.

Protective Gloves: Chemical resistant *Eye Protection:* Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Astral Diagnostics, Inc. shall not be held liable for any damage resulting from handling or contact with this product.