



*your partner in food safety*

# SDS

## Safety Data Sheet

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### 1) Product Identification

**Product Name:** Diactolate

**Product Code:** I00202

**Recommended Use:** Powdered acid neutralizer for use on food products.

**Producer:** Birko Corporation  
9152 Yosemite Street  
Henderson, CO 80640-8027

**Contact Information:** (303) 289-1090 or 1-800-525-0476

**Emergency Number:** CHEMTREC 1-800-424-9300

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### 2) Hazard(s) Identification

Health	Environmental	Physical
Acute Toxicity Cat. 5 Skin Corrosion Cat. 2 Eye Effects Cat. 2	Aquatic Toxicity Acute Cat. 3	

**Labeling:****Symbol:****Signal Word: Danger****Irritant, Aquatic Toxicity**

**Hazard Statement(s):** May cause irreversible eye damage. Harmful if swallowed. May cause burns. Do not get into eyes, on skin, or on clothing.

**Precautionary Statement(s):** Use rubber gloves, and protective clothing. Remove contaminated clothing and wash before re-use. Do not contaminate food, feed, or water. Keep container closed when not in use.

**3) Composition/ Information on Ingredients**

Name(s)	Synonym(s)	CAS Number	Weight %
Citric Acid		77-92-9	< 100%

**4) First-Aid Measures**

Inhalation	Skin Contact	Eye Contact	Ingestion
If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.	Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before re-use and discard contaminated shoes.	If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.	Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

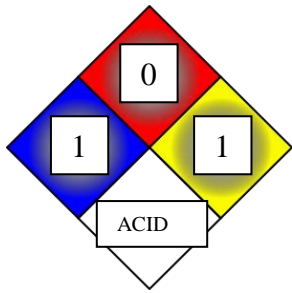
## 5) Firefighting Measures

**Suitable Extinguishing Media:** Water, Carbon Dioxide, Dry Chemical, and Foam Blanket

**Unsuitable Extinguishing Media:** N/A

**Specific Hazards:** Always wear self-contained breathing apparatus when fighting a chemical fire.

**Special Protective Actions for Fire-Fighters:** Carbon monoxide and Carbon dioxide gases liberated during combustion.



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## 6) Accidental Release Measures

**Personal Precautions:** Be sure to use all necessary Personal Protective Equipment

**Environmental Precautions:** Avoid contamination of food, feed, waterway, or groundwater.

**Methods and Materials for Containment and Clean-Up:** Remove all non-necessary personal from spill area, preferred upwind of spill site. For dry material: Wear NIOSH approved respiratory protection, and sweep up material or vacuum up spill material (recommended). For wet material: Dike, capture material, and contain for re-use or disposal. Remainder may be neutralized with a mild acid (vinegar) and rinsed to a sewer.

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## 7) Handling and Storage

**Precautions for Safe Handling:** Do not contaminate food, feed, or natural water. Supplier is not responsible for disposition of this product. Do not reuse container. Maintain an eyewash station, and safety shower in product handling areas.

**Conditions for Safe Storage:** Keep container closed when not in use. Store in a cool, dry location.

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## 8) Exposure Controls and Personal Protection

**Appropriate Engineering Controls:** Ventilation: Provide local exhaust ventilation where mist may be generated. Ensure compliance with applicable exposure limits.

### Exposure Limits:

Name (CAS-No.)	PEL	TWA	STEL
Citric Acid (77-92-9)	OSHA 5 mg/m <sup>3</sup> ACGIH 5 mg/m <sup>3</sup>	N/A	N/A

### Personal Protective Equipment

Eye/Face	Skin	Gloves	Respiratory
			

**Eye/Face:** Wear chemical/dust safety goggles.

**Skin:** Wear appropriate clothing.

**Gloves:** Wear appropriate chemical resistant gloves.

**Respiratory:** Use only a NOISH N95 approved dust mask when in contact with powdered products. If eye irritation occurs use a full face style mask. If respirators are warranted in the workplace a respiratory protection programs must meet 29 CFR 1910.134, and be followed.

**Protective Material Types:** Butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC), or Tychem (R)

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## 9) Physical and Chemical Properties

**Physical Form:** Powder

**Appearance:** Colorless

**Odor:** Odorless

**pH:** (1% Solution) 2.4

**Melting Point:** Not available

**Freezing Point:** Not established

**Boiling Point:** Not established

**Flash Point:** Not applicable

**Evaporation Rate:** Not established

**Flammability:** Not flammable

**Upper/Lower Flammability or explosive limits:** Not applicable

**Vapor Pressure:** Not established

**Vapor Density:** Not established

**Relative Density:** Not established

**Specific Gravity:** Not applicable

**Solubility:** 100%

**Partition coefficient:** Not available

**Auto-Ignition Temperature:** Not applicable

**Decomposition Temperature:** Not available

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## 10) Stability and Reactivity

**Chemical Stability:** Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions:** This product does not polymerize under normal storage and use conditions.

**Conditions to Avoid:** Mixing with caustics and other strong bases. Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air.

**Materials to Avoid:** Alkali metals, strong alkalis, carbides, hydrogen sulfide, turpentine, organic acids, acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air.

**Hazardous Decomposition Products:** Carbon monoxide and Carbon dioxide gases liberated during combustion.

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## 11) Toxicological Information

**Acute Toxicity:**

Test	Results	Basis
N/A	N/A	N/A

**Summary Comments:** Mild acid burns and irritation may occur. If product comes into contact with skin or eyes, wash thoroughly with cool water.

**Sub-chronic/Chronic Toxicity:**

Test	Teratogen	Mutagen
NONE	NONE	NONE

**12) Ecological Information****Toxicity:**

Test	Results
N/A	N/A

**Persistence and Degradability:** Increased acidity in water will cause harm and death to aquatic organisms.

**Bioaccumulative Potential:** This material is believed not to bioaccumulate.

**Mobility in Soil:** Not available

**Other Adverse Effects:** Not available

**13) Disposal Considerations**

**Disposal Method:** Re-use or reprocess if possible. Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002

**14) Transport Information**

**UN Number:** N/A

**UN Proper Shipping Name:** N/A

**Transport Hazard Class (es):** N/A

**Packing Group:** N/A

**Environmental Hazard(s):** N/A

**Special Precautions for User:** N/A

**15) Regulatory Information****US Regulations:**

**CERCLA Sections 102a/103 Hazardous substances (40 CFR 302.4):** N/A

**SARA Title III, SARA Sections 311/312, Hazardous Categories (40 CFR 370.21):**

Acute: Yes

Chronic: No

Fire: No

Reactive: No

Sudden Release: No

**State Regulations:**

**California Proposition 65:** This product is not listed.

**Canadian Regulations:**

**Controlled Products Regulations (CPR):** This product has been classified in accordance with the criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the CPR.

**WHMIS Classification:** N/A

**National Inventory Status: U.S. Inventory (TSCA):** All the components of this substance are listed on or exempt from the inventory.

**Canada Inventory (DSL/NDSL):** All components of this product are listed on the DSL

**16) Other Information**

HMIS	Hazard Index
<b>0</b> <b>FLAMMABILITY</b>	4-Severe
<b>1</b> <b>HEALTH</b>	3-Serious
<b>1</b> <b>REACTIVITY</b>	2-Moderate
<b>E</b> <b>Personal Protection</b>	1-Slight 0-Minimal












**Preparer:** Ramsey Johnson












**Approved By:** Terry L. McAninch

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Personal Protective Index

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B 	F 	J 
C 	G 	K 
D 	H 	X Ask your supervisor

 Safety Glasses  
  Face Shield  
  Splash Goggles  
  Airline Hood or Mask  
  Gloves  
  Synthetic Apron  
  Dust Respirator  
  Vapor Respirator  
  Dust+Vapor Respirator  
  Full Suit  
  Boots