



# Safety Data Sheet

Issue Date: 17 Sept 2018

Revision Date: 08 Oct 2019

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Liquik Diactolate

### Other means of identification

**SDS #** BIR-012

**Product Code** I02033

### Recommended use of the chemical and restrictions on use

**Recommended Use** Neutralizer for use on food products.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Birko Corporation  
9152 Yosemite Street  
Henderson, CO 80640-8027  
www.birkocorp.com

### Emergency Telephone Number

**Company Phone Number** Phone: 303-289-1090 or 1-800-525-0476

Fax: 303-289-1190

**Emergency Telephone (24 hr)** Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

**Appearance** Colorless liquid

**Physical state** Liquid

**Odor** None

### Classification

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Serious eye damage/eye irritation
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Category 2
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**Signal Word****Warning****Hazard statements**

Causes serious eye irritation

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear eye protection/ face protection

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>
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Chemical Name	CAS No.	Weight-%
Citric Acid	77-92-9	50-60

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\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. \*\*

#### 4. FIRST AID MEASURES

##### First Aid Measures

<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.

##### Most important symptoms and effects

<b>Symptoms</b>	Causes serious eye irritation.
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##### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

<b>Unsuitable Extinguishing Media</b>	Not determined.
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##### Specific Hazards Arising from the Chemical

Not determined.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Use personal protective equipment as required.
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##### Environmental precautions

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**Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Clean-Up</b>	Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Precautions for safe handling**

<b>Advice on Safe Handling</b>	Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Incompatible Materials</b>	None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citric Acid 77-92-9	-	15 mg / m3 (Total)	-

**Appropriate engineering controls**

<b>Engineering Controls</b>	Apply technical measures to comply with the occupational exposure limits.
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**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Refer to 29 CFR 1910.133 for eye and face protection regulations.
<b>Skin and Body Protection</b>	Refer to 29 CFR 1910.138 for appropriate skin and body protection.
<b>Respiratory Protection</b>	Refer to 29 CFR 1910.134 for respiratory protection requirements.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid		
<b>Appearance</b>	Colorless liquid	<b>Odor</b>	None

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<b>Color</b>	Colorless	<b>Odor Threshold</b>	Not determined
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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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<b>pH</b>	2.4	
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<b>Melting Point/Freezing Point</b>	Not determined	
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<b>Boiling Point/Boiling Range</b>	Not determined	
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<b>Flash Point</b>	Not determined	
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<b>Evaporation Rate</b>	Not determined	
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<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable	
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<b>Flammability Limits in Air</b>		
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<b>Upper Flammability Limits</b>	Not determined	
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<b>Lower Flammability Limit</b>	Not determined	
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<b>Vapor Pressure</b>	Not determined	
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Vapor Density	Not determined
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Specific Gravity	1.23
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Water Solubility	Not determined
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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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Solubility in other solvents	Not determined
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Partition Coefficient	Not determined
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Auto-ignition Temperature	Not determined
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Decomposition Temperature	Not determined
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Kinematic Viscosity	Not determined
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Dynamic Viscosity	Not determined
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Explosive Properties	Not determined
Oxidizing Properties	Not determined

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

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**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

Keep out of reach of children.

**Incompatible Materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Citric Acid 77-92-9	= 3 g/kg (Rat) = 3000 mg/kg (Rat)	-	-
Sodium benzoate 532-32-1	= 4070 mg/kg (Rat)	-	-

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Serious eye damage/eye irritation** Causes eye irritation.

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

#### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 6,000.00 mg/kg

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Citric Acid 77-92-9		1516: 96 h Lepomis macrochirus mg/L LC50 static	120: 72 h Daphnia magna mg/L EC50
Sodium benzoate 532-32-1		100: 96 h Pimephales promelas mg/L LC50 static 420 - 558: 96 h Pimephales promelas mg/L LC50 flow-through	650: 48 h Daphnia magna mg/L EC50

#### **Persistence/Degradability**

Not determined.

#### **Bioaccumulation**

Not determined.

#### **Mobility**

Chemical Name	Partition Coefficient
Citric Acid 77-92-9	-1.72
Sodium benzoate 532-32-1	-2.13

#### **Other Adverse Effects**

Not determined

## **13. DISPOSAL CONSIDERATIONS**

#### **Waste Treatment Methods**

##### **Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

##### **Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.



## 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

UN/ID No UN3265  
 Proper Shipping Name Corrosive Liquids, Acidic, organic, n.o.s., (Citric Acid)  
 Hazard Class 8  
 Packing Group III

**IATA**

UN/ID No UN3265  
 Proper Shipping Name Corrosive Liquids, Acidic, organic, n.o.s., (Citric Acid)  
 Hazard Class 8  
 Packing Group III

**IMDG**

UN/ID No UN3265  
 Proper Shipping Name Corrosive Liquids, Acidic, organic, n.o.s., (Citric Acid)  
 Hazard Class 8  
 Packing Group III

## 15. REGULATORY INFORMATION

**International Inventories**

Chemical Name	TSCA	DSL/ND SL	EINECS /ELINC S	ENCS	IECSC	KECL	PICCS	AICS
Citric Acid	X	X	X	Present	X	Present	X	X
Sodium benzoate	X	X	X	Present	X	Present	X	X

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 313**

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Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

<b>16. OTHER INFORMATION</b>
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**NFPA****Health Hazards**

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**Flammability**

0

**Instability**

0

**Special Hazards****HMIS****Health Hazards**

1

**Flammability**

0

**Reactivity**

1

**Personal Protection**

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Issue Date: 24-Nov-2017  
Revision Date: 08-Oct-2019  
Revision Note: New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**