

Material Name: Electrolyte™, Product Code: 5638

SDS ID: 5638

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

ElectrolyteTM, Product Code: 5638

Product Use Livestock Feed Supplement.

Restrictions on Use Use Only as Directed on Label.

Details of the supplier of the safety data sheet

Ralco Nutrition, Inc. 1600 Hahn Road Marshall, MN 56258 Phone: 1-800-533-5306

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

GHS Label Elements

Symbol(s) None needed according to classification criteria

Signal Word

None needed according to classification criteria

Hazard Statement(s)

None needed according to classification criteria.

Precautionary Statement(s)

Prevention

None needed according to classification criteria.

Response

None needed according to classification criteria.

Storage

None needed according to classification criteria.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

May form combustible dust concentrations in air.



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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent		
50-99-7	Glucose	55-85		
144-55-8	Sodium bicarbonate	15-40		

Section 4 - FIRST AID MEASURES

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin

Wash thoroughly after handling.

Eyes

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

Ingestion

Rinse mouth thoroughly with water.

Most Important Symptoms/Effects

Acute None Known.

Delayed

None Known.

Note to Physicians

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media Suitable Extinguishing Media Water spray, regular dry chemical, carbon dioxide, fire-fighting foam. Unsuitable Extinguishing Media None Known.

Hazardous Combustion Products

May form combustible dust concentrations in air.

Fire Fighting Measures

Co-ordinate fire-fighting measures to the fire surroundings.Knock down dust with water spray jet.

Special Protective Equipment and Precautions for Firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.



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Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use Personal Protective equipment as required.

Methods and Materials for Containment and Cleaning Up

Collect in closed and suitable containers for disposal. Dispose of contents/container in accordance with local/regional/national/international regulations.

Environmental Precautions

None Known.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Use Personal Protective equipment as required.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures

There are no biological limit values for any of this product's components.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls

Sufficient to maintain atmospheric concentrations below applicable regulatory limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection Use suitable eye protection.

Skin Protection

Wear suitable protective clothing.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

Glove Recommendations

Wear protective gloves.



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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder.	Physical State	Solid.	
Odor	Odorless.	Color	White.	
Odor Threshold	Not available	рН	Not available	
Melting Point	Not available	Boiling Point	Not available	
Freezing point	Not available	Evaporation Rate	Not available	
Boiling Point Range	Not available	Flammability (solid, gas)	Not available	
Autoignition	Not available	Flash Point	Not available	
Lower Explosive Limit	Not available	Decomposition	Not available	
Upper Explosive Limit	Not available	Vapor Pressure	Not available	
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not available	
Water Solubility	Not available	Partition coefficient: n-octanol/water	Not available	
Viscosity	Not available	Solubility (Other)	Not available	
Density	Not available	Molecular Weight	Not available	

Section 10 - STABILITY AND REACTIVITY

Reactivity No known hazardous reactions.

Chemical Stability

The product is stable under storage at normal ambient temperatures.

Conditions to Avoid

Avoid contact with incompatible materials. Avoid dust formation.

Incompatible Materials None Known.

Hazardous decomposition products None Known.



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Section 11 - TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published: Glucose (50-99-7) Oral LD50 Rat 25800 mg/kg Sodium bicarbonate (144-55-8) Oral LD50 Rat 4220 mg/kg Potassium chloride (7447-40-7) Oral LD50 Rat 2600 mg/kg L-Ascorbic acid (50-81-7) Oral LD50 Rat 11900 mg/kg Citric acid (77-92-9) Oral LD50 Rat 3 g/kg FD and C Red No. 40 (25956-17-6) Oral LD50 Rat >10 g/kg (no deaths occurred) **Immediate Effects** No information on significant adverse effects. **Delayed Effects** No information on significant adverse effects. **Irritation/Corrosivity Data** No data available. **Respiratory Sensitization** No data available. **Dermal Sensitization** No data available. **Component Carcinogenicity** None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA **Germ Cell Mutagenicity** No data available. **Tumorigenic Data** No data available **Reproductive Toxicity** No data available. Specific Target Organ Toxicity - Single Exposure No data available. **Specific Target Organ Toxicity - Repeated Exposure**

No data available.

Aspiration hazard No data available.

Medical Conditions Aggravated by Exposure No data available.



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Section 12 - ECOLOGICAL INFORMATION

Component Analysis	- Aquatic Toxicity
Sodium bicarbonate	144-55-8
Fish:	LC50 96 h Lepomis macrochirus 8250 - 9000 mg/L [static]
Invertebrate:	EC50 48 h Daphnia magna 2350 mg/L IUCLID
Potassium chloride	7447-40-7
Fish:	LC50 96 h Lepomis macrochirus 1060 mg/L [static]; LC50 96 h Pimephales promelas 750 - 1020 mg/L [static]
Algae:	EC50 72 h Desmodesmus subspicatus 2500 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 825 mg/L IUCLID; EC50 48 h Daphnia magna 83 mg/L [Static] EPA
Citric acid	77-92-9
Fish:	LC50 96 h Lepomis macrochirus 1516 mg/L [static]

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information: No Classification assigned.

TDG Information:

No Classification assigned.



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Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Citric acid 77-92-9 1 %

Component Analysis - Inventory

Glucose (50-99-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Sodium bicarbonate (144-55-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes



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Section 16 - OTHER INFORMATION

Summary of Changes

New SDS: 01/04/2017 Supersedes: 05/11/2016

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD -Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU -European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; ICAO - International Civil Aviation Organization; IDL -Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; JP - Japan; Kow -Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL - Korea Existing Chemicals List; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIstsTM - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace: MEL - Maximum Exposure Limits; MX – Mexico; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH-Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA -Korea Toxic Chemicals Control Act.; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of Ralco's knowledge, information and belief at the date of preparation. The information provided is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The conditions or methods of said handling, storage, use, and disposal of this product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expenses arising out of or connected with the handling, storage, use, or disposal of this product. The information provided 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 text.