

Material Name: Avi-Lyte™ **SDS ID: 2062** 

#### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### **Material Name**

Avi-Lyte<sup>TM</sup> Product Code: 2062

#### **Product Use**

A Vitamin-Mineral Supplement for All Classes of Poultry.

#### **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.

Serious Eye Damage/Eye Irritation - Category 1 Skin Sensitization - Category 1A Reproductive Toxicity - Category 1B

#### **GHS Label Elements**

## Symbol(s)







# **Signal Word**

Danger

#### **Hazard Statement(s)**

Causes serious eye damage. May cause allergic skin reaction.

May damage fertility or the unborn child.

## **Precautionary Statement(s)**

#### **Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves.

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## Response

IF exposed or concerned: Get medical advice/attention.

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

IF ON SKIN: Wash with plenty of soap and water.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor.

Specific treatment (see label).

#### Storage

Store locked up.

#### **Disposal**

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

# Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
77-92-9	Citric acid	40-75
7447-40-7	Potassium chloride	30-50
7647-14-5	Sodium chloride	10-20

#### Section 4 - FIRST AID MEASURES

# **Description of Necessary Measures**

Causes serious eye damage.

#### Inhalation

Avoid breathing dust/fume/gas/mist/vapors/spray. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

# Skin

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

#### **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.

#### **Ingestion**

Rinse mouth thoroughly with water.



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#### **Most Important Symptoms/Effects**

#### Acute

Causes serious eye damage. May cause allergic skin reaction.

#### **Delayed**

May damage fertility or the unborn child.

### **Note to Physicians**

Treat symptomatically.

## Section 5 - FIRE FIGHTING MEASURES

#### **Extinguishing Media**

# **Suitable Extinguishing Media**

Water spray. carbon dioxide. regular dry chemical. fire-fighting foam.

### **Unsuitable Extinguishing Media**

No specific measures identified.

# **Special Hazards Arising from the Chemical**

Not available.

#### **Hazardous Combustion Products**

Non-flammable.

#### **Fire Fighting Measures**

Co-ordinate fire-fighting measures to the fire surroundings.

# **Special Protective Equipment and Precautions for Firefighters**

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

## Section 6 - ACCIDENTAL RELEASE MEASURES

## **Personal Precautions, Protective Equipment and Emergency Procedures**

Use Personal Protective equipment as required. Collect in closed and suitable containers for disposal. Dispose in accordance with all applicable regulations.

#### **Environmental Precautions**

None Known.

# Section 7 - HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Use Personal Protective equipment as required. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

#### Conditions for Safe Storage, Including any Incompatibilities

Store locked up.

Store in a dry place. Store in a closed container. Protect from sunlight.



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# 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.

## **Engineering Controls**

Sufficient to maintain atmospheric concentrations below applicable regulatory limits.

# Individual Protection Measures, such as Personal Protective Equipment

#### **Eye/face protection**

Eye glasses with side protection, goggles. Wear face protection.

#### **Skin Protection**

Wear suitable protective clothing.

# **Respiratory Protection**

Provide adequate 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	fruity	Color	off-white to yellow	
Odor Threshold	Not available	рН	Not available	
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available	
Freezing point	Not available	Evaporation Rate	Not available	
<b>Boiling Point Range</b>	Not available	Flammability (solid, gas)	Not available	
Autoignition	Not available	Flash Point	Not available	
Lower Explosive Limit	Not available	Decomposition	Not available	
<b>Upper Explosive Limit</b>	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	



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# Section 10 - STABILITY AND REACTIVITY

#### Reactivity

Reactive with oxidizing agents, reducing agents, metals, and alkalis. Contact with hot nitric acid may cause evolution of toxic nitrosyl chloride. Contact with other strong acids may produce irritating hydrogen chloride gas.

#### **Chemical Stability**

The product is stable under storage at normal ambient temperatures.

#### **Possibility of Hazardous Reactions**

No data available.

#### **Conditions to Avoid**

Avoid contact with incompatible materials. High heat can cause decomposition.

#### **Incompatible Materials**

Reactive with oxidizing agents, reducing agents, metals, and alkalis.

# **Hazardous decomposition products**

Contact with hot nitric acid may cause evolution of toxic nitrosyl chloride. Contact with other strong acids may produce irritating hydrogen chloride gas.

# Thermal decomposition products

Can yield oxides of Sulfur when heated above 1000° F.

#### Section 11 - TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

#### Inhalation

Yes.

**Skin Contact** 

Yes.

**Eye Contact** 

Yes.

**Ingestion** 

Yes.

## **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:

Citric acid (77-92-9)

Oral LD50 Rat 3 g/kg

Potassium chloride (7447-40-7)

Oral LD50 Rat 2600 mg/kg



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Sodium chloride (7647-14-5) Oral LD50 Rat 3 g/kg Inhalation LC50 Rat >42 g/m3 1 h Vitamin A acetate (127-47-9) Oral LD50 Rat 4980 mg/kg Vitamin D3 (67-97-0) Oral LD50 Rat 42 mg/kg Nicotinamide (98-92-0) Oral LD50 Rat 3500 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

#### **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**

Menadione sodium bisulfite	130-37-0
IARC:	Monograph 76 [2000] (Group 3 (not classifiable))

#### **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**

Component Analysis - Aquatic Toxicity								
Citric acid	77-92-9							
Fish:	LC50 96 h Lepomis macrochirus 1516 mg/L [static]							
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							
Sodium chloride	7647-14-5							
Fish:	LC50 96 h Lepomis macrochirus 5560 - 6080 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 12946 mg/L [static]; LC50 96 h Pimephales promelas 6020 - 7070 mg/L [static]; LC50 96 h Pimephales promelas 7050 mg/L [semi-static]; LC50 96 h Pimephales promelas 6420 - 6700 mg/L [static]; LC50 96 h Oncorhynchus mykiss 4747 - 7824 mg/L [flow-through]							
Invertebrate:	EC50 48 h Daphnia magna 1000 mg/L IUCLID; EC50 48 h Daphnia magna 340.7 - 469.2 mg/L [static] EPA							
Nicotinamide	98-92-0							
Fish:	LC50 96 h Poecilia reticulata >1000 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**

Citric acid (77-92-9)

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

## Potassium chloride (7447-40-7)

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 chloride (7647-14-5)

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: 10/13/2015

#### 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; 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; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; 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; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; 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.