

Material Name: Microfused™ EO

SDS ID: 2750

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Microfused™ EO

Product Use

Livestock Feed Flavoring.

Restrictions on Use

Use Only as Directed on Label. This product is for further manufacturing of feeds.

Details of the supplier of the safety data sheet

Ralco Nutrition, Inc. 1600 Hahn Road PO Box 1083 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 2A

GHS Label Elements

Symbol(s)



Signal Word

Warning.

Hazard Statement(s)

Causes serious eye irritation.

Precautionary Statement(s)

Prevention

Wear eye protection/face protection.

Wash thoroughly after handling.

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.

Storage

None needed according to classification criteria.

Disposal

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

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
471-34-1	Calcium carbonate	60-85
61790-53-2	Diatomaceous earth	1-25

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. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth thoroughly with water.

Most Important Symptoms/Effects

Acute

Causes serious eye irritation.

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.

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.

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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. Wash thoroughly after handling.

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

Calcium carbonate	471-34-1
NIOSH:	10 mg/m3 TWA total dust; 5 mg/m3 TWA respirable dust
Diatomaceous earth	61790-53-2
OSHA (US):	((80)/(% SiO2) mg/m3 TWA); 20 mppcf TWA
Mexico:	10 mg/m3 TWA LMPE-PPT inhalable fraction

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	Tan Powder	Physical State	Solid	
Odor	cinnamon, Herbal aroma	Color	Tan Not available	
Odor Threshold	Not available	рН		
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.

High heat can cause decomposition.

Incompatible Materials

Strong acid.

Oxidizing agents.

High heat can cause decomposition.

Hazardous decomposition products

None Known.

Thermal decomposition products

Heating of product above 825° C may decompose to Calcium Oxide with a release of Carbon Dioxide.

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Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Eye Contact

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:

Calcium carbonate (471-34-1)

Oral LD50 Rat 6450 mg/kg

White mineral oil (8042-47-5)

Oral LD50 Rat >5000 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

Diatomaceous earth	61790-53-2	
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))	ĺ

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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Component Analysis - Aquatic Toxicity

White mineral oil	8042-47-5
Fish:	LC50 96 h Lepomis macrochirus >10000 mg/L

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.

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

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Diatomaceous earth	61790-53-2	No	No	Yes	Yes	No

Not listed under California Proposition 65

Component Analysis - Inventory

Calcium carbonate (471-34-1)

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
Distant	Distance 4 (C1700 52.2)										

Diatomaceous earth (61790-53-2)

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

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Section 16 - OTHER INFORMATION

Summary of Changes New SDS: 05/19/2016

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; 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; 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.