

Material Name: DuraBoost for Dairy Calves, Product Code: 2705 SDS ID: 2705

# Section 1 - PRODUCT AND COMPANY IDENTIFICATION

#### **Material Name**

DuraBoost for Dairy Calves, Product Code: 2705

# **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

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.

Skin Sensitization - Category 1A

#### **GHS Label Elements**

Symbol(s)



# Signal Word

Warning

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

May cause an allergic skin reaction.

# **Precautionary Statement(s)**

# **Prevention**

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

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

Wear protective gloves.

#### Response

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

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

#### 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

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CAS	Component Name	Percent
50-99-7	Glucose	65-85
n/a	Corn syrup solids	1-15
7447-40-7	Potassium chloride	1-15

# **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

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

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

#### 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**

May cause an allergic skin reaction.

#### 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**

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

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# Personal Precautions, Protective Equipment and Emergency Procedures

Use Personal Protective equipment as required.

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

# 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.

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

Wash contaminated clothing before reuse.

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

# Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a cool, well-ventilated place.

Protect against direct sunlight. Store in a cool dry place. Store locked up.

# Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Component Exposure Limits** 

Silica, amorphous, precipitated and gel	112926-00-8
OSHA (US):	20 mppcf TWA; ((80)/(% SiO2) mg/m3 TWA)
Calcium carbonate	471-34-1
NIOSH:	10 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable dust

# 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**

Wear eye protection/face protection.

#### **Skin Protection**

Wear suitable working clothes.

#### **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	off-white to yellow powder	Physical State	solid
Odor	Herbal aroma.	Color	off-white to yellow
Odor Threshold	Not available	рН	Not available
Melting Point	Not available	<b>Boiling Point</b>	Not available
<b>Boiling Point Range</b>	Not available	Freezing point	Not available
<b>Evaporation Rate</b>	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	<b>Decomposition temperature</b>	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	Kinematic 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

No data available.



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# Section 11 - TOXICOLOGICAL INFORMATION

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#### **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

# Potassium chloride (7447-40-7)

Oral LD50 Rat 2600 mg/kg

#### Calcium pantothenate, D-form (137-08-6)

Oral LD50 Rat >10 g/kg

# **Nicotinamide (98-92-0)**

Oral LD50 Rat 3500 mg/kg

Dermal LD50 Rabbit >2000 mg/kg (no deaths occurred)

# **Riboflavin** (83-88-5)

Oral LD50 Rat >10 g/kg

#### L-Ascorbic acid (50-81-7)

Oral LD50 Rat 11900 mg/kg

# Oils, origanum (8007-11-2)

Oral LD50 Rat 1850 mg/kg

#### Vitamin B6 (58-56-0)

Oral LD50 Rat 4000 mg/kg

#### Vitamin A acetate (127-47-9)

Oral LD50 Rat 4980 mg/kg

# Vitamin D3 (67-97-0)

Oral LD50 Rat 42 mg/kg

Dermal LD50 Rat 61 mg/kg (males)

Inhalation LC50 Rat 0.13 - 0.38 mg/L 4 h

#### Calcium carbonate (471-34-1)

Oral LD50 Rat 6450 mg/kg

# White mineral oil (8042-47-5)

Oral LD50 Rat >5000 mg/kg

#### Sodium saccharin (128-44-9)

Oral LD50 Rat 14200 mg/kg

# **Product Toxicity Data**

# **Acute Toxicity Estimate**

Dermal	> 2000 mg/kg
Inhalation - Dust and Mist	> 5 mg/L
Oral	> 2000 mg/kg

# **Immediate Effects**

No information on significant adverse effects.

# **Delayed Effects**

No information on significant adverse effects.

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**Irritation/Corrosivity Data** 

No data available.

**Respiratory Sensitization** 

No data available.

**Dermal Sensitization** 

No data available.

**Component Carcinogenicity** 

Silica, amorphous, precipitated and gel	112926-00-8
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))
Sodium saccharin	128-44-9
IARC:	Monograph 73 [1999] (downgraded from 2B to 3 ); Supplement 7 [1987] ; Monograph 22 [1980] (Group 3 (not classifiable))
Cobalt[II] carbonate hydroxide (2:3) monohydrate	51839-24-8
IARC:	Monograph 52 [1991] (Group 2B (possibly carcinogenic to humans))
OSHA:	Present

# **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** 

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
Nicotinamide	98-92-0
Fish:	LC50 96 h Poecilia reticulata >1000 mg/L [static ]
Vitamin A acetate	127-47-9
Fish:	LC50 96 h Oncorhynchus mykiss 1.37 mg/L
White mineral oil	8042-47-5
Fish:	LC50 96 h Lepomis macrochirus >10000 mg/L
Sodium saccharin	128-44-9
Fish:	LC50 96 h Pimephales promelas 16400 - 20400 mg/L [static] (30 days old)

# **Section 13 - DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

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

# **Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

# **Section 14 - TRANSPORT INFORMATION**

#### **US DOT Information:**

No Classification assigned.

# **International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Potassium chloride	7447-40-7		
IBC Code:	Category Z (solution )		



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# **Section 15 - REGULATORY INFORMATION**

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#### U.S. Federal Regulations

None of this product's 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.

#### SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Respiratory/Skin Sensitization

#### **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
Silica, amorphous, precipitated and gel	112926-00-8	No	Yes	Yes	Yes	Yes
Sodium saccharin	128-44-9	No	Yes	No	No	Yes

# California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Not listed under California Proposition 65.

#### **Canada Regulations**

# Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

# **Component Analysis - Inventory**

Glucose (50-99-7)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	РН	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	No	Yes	Yes

#### Corn syrup solids (n/a)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
No	No	No	No	No	No	No	No	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	No	No	No	No	No	No

#### Potassium chloride (7447-40-7)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	РН	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes



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# **Section 16 - OTHER INFORMATION**

# Preparation Date SDS: 05/08/2019

Supersedes: 10/05/2016

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU -Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA -California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); 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; EC - European Commission; EEC - European Economic Community; EIN -European Inventory of (Existing Commercial Chemical Substances); 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; F - Background (for Venezuela Biological Exposure Indices); 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; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts<sup>TM</sup> - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Nonspecific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; 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; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations / North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

#### Other Information

#### Disclaimer:

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