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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

Birthright Bridge NAP, Product Code: 9105

**Product Use**

A Complete Livestock Feed.

**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

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### Section 2 - HAZARDS IDENTIFICATION

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

Reproductive Toxicity - Category 2

Hazardous to the Aquatic Environment - Acute - Category 3

Hazardous to the Aquatic Environment - Chronic - Category 3

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Warning.

**Hazard Statement(s)**

Suspected of damaging fertility or the unborn child.

Harmful to aquatic life with long lasting effects.

**Precautionary Statement(s)**

**Prevention**

Obtain special instructions before use.

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

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

**Response**

IF exposed or concerned: Get medical advice/attention.



## Safety Data Sheet

Material Name: Birthright Bridge NAP

SDS ID: 9105

**Storage**

Store locked up.

**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
n/a	Dried Whey	10-35
n/a	Oat Groats	5-30
n/a	Corn	1-25

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### Section 4 - FIRST AID MEASURES

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**Description of Necessary Measures**

IF exposed or concerned: Get medical advice/attention.

**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**

Suspected of damaging fertility or the unborn child.

**Note to Physicians**

Treat symptomatically.

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**Section 5 - FIRE FIGHTING MEASURES**

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**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**

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**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**

Harmful to aquatic life with long lasting effects.

Avoid release to the environment.

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**Section 7 - HANDLING AND STORAGE**

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**Precautions for Safe Handling**

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

Use Personal Protective equipment as required.

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

Store locked up.

Store in a well-ventilated place.

Keep container tightly closed.



### 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)
Mexico:	10 mg/m3 TWA VLE-PPT
Zinc oxide	1314-13-2
ACGIH:	2 mg/m3 TWA respirable particulate matter
	10 mg/m3 STEL respirable particulate matter
NIOSH:	5 mg/m3 TWA dust and fume
	10 mg/m3 STEL fume
	15 mg/m3 Ceiling dust
	500 mg/m3 IDLH
OSHA (US):	5 mg/m3 TWA fume; 15 mg/m3 TWA total dust; 5 mg/m3 TWA respirable fraction
Mexico:	5 mg/m3 TWA VLE-PPT fume; 10 mg/m3 TWA VLE-PPT dust
	10 mg/m3 STEL [PPT-CT] fume
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 VLE-PPT inhalable fraction
Selenium	7782-49-2
ACGIH:	0.2 mg/m3 TWA
NIOSH:	0.2 mg/m3 TWA
	1 mg/m3 IDLH

#### 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.

## Safety Data Sheet

**Material Name: Birthright Bridge NAP**
**SDS ID: 9105**
**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.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Pellets	<b>Physical State</b>	Solid
<b>Odor</b>	Cereal (grain)	<b>Color</b>	Tan
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	Not available	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	Not available	<b>Molecular Weight</b>	Not available



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### Section 10 - STABILITY AND REACTIVITY

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**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.

**Incompatible Materials**

None Known.

**Hazardous decomposition products**

None Known.

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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:

Vitamin A acetate (127-47-9)

Oral LD50 Rat 4980 mg/kg

Sodium saccharin (128-44-9)

Oral LD50 Rat 14200 mg/kg

Zinc oxide (1314-13-2)

Oral LD50 Rat >5000 mg/kg

Copper chloride oxide (1332-40-7)

Oral LD50 Rat 833 mg/kg

Dermal LD50 Rat >5000 mg/kg

Calcium pantothenate (137-08-6)

Oral LD50 Rat >10 g/kg

Calcium carbonate (471-34-1)

Oral LD50 Rat 6450 mg/kg

Pyridoxine hydrochloride (58-56-0)

Oral LD50 Rat 4000 mg/kg

Niacin (59-67-6)

Oral LD50 Rat 7 g/kg

Dermal LD50 Rat >2000 mg/kg

L-Methionine (63-68-3)

Oral LD50 Rat 36 g/kg

L-Lysine HCl (657-27-2)

Oral LD50 Rat 10 g/kg

Vitamin D3 (67-97-0)

Oral LD50 Rat 42 mg/kg

L-Tryptophan (73-22-3)  
 Oral LD50 Rat >16 g/kg  
 Zinc sulfate, monohydrate (7446-19-7)  
 Oral LD50 Mouse 1891 mg/kg  
 Potassium chloride (7447-40-7)  
 Oral LD50 Rat 2600 mg/kg  
 Sodium chloride (7647-14-5)  
 Oral LD50 Rat 3 g/kg  
 Inhalation LC50 Rat >42 g/m<sup>3</sup> 1 h  
 Monocalcium phosphate (7758-23-8)  
 Oral LD50 Rat 3986 mg/kg  
 Dermal LD50 Rabbit >2 g/kg  
 Selenium (7782-49-2)  
 Oral LD50 Rat 6700 mg/kg  
 Corn oil (8001-30-7)  
 Oral LD50 Rat >100 mL/kg  
 Oils, origanum (8007-11-2)  
 Oral LD50 Rat 1850 mg/kg  
 White mineral oil (8042-47-5)  
 Oral LD50 Rat >5000 mg/kg  
 Riboflavin (83-88-5)  
 Oral LD50 Rat >10 g/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**

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

**Safety Data Sheet****Material Name: Birthright Bridge NAP****SDS ID: 9105**

Selenium	7782-49-2
IARC:	Supplement 7 [1987]; Monograph 9 [1975] (Group 3 (not classifiable))
DFG:	Category 3B (could be carcinogenic for man)

**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.

**Section 12 - ECOLOGICAL INFORMATION****Component Analysis - Aquatic Toxicity**

Sodium saccharin	128-44-9
Fish:	LC50 96 h Pimephales promelas 16400 - 20400 mg/L [static] (30 days old)
Niacin	59-67-6
Fish:	LC50 96 h Salmo trutta 520 mg/L
Algae:	EC50 72 h Desmodesmus subspicatus 89.93 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 77 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
Sodium chloride	7647-14-5





## Safety Data Sheet

Material Name: Birthright Bridge NAP

SDS ID: 9105

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
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. Avoid release to the environment.

#### 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.

#### TDG Information:

No Classification assigned.

### Section 15 - REGULATORY INFORMATION

#### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Selenium	7782-49-2
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)



## Safety Data Sheet

Material Name: Birthright Bridge NAP

SDS ID: 9105

### 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
Zinc oxide	1314-13-2	Yes	Yes	Yes	Yes	Yes
Diatomaceous earth	61790-53-2	No	No	Yes	Yes	No
Selenium	7782-49-2	Yes	Yes	No	Yes	Yes
Corn oil	8001-30-7	No	No	No	No	Yes

### 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.

Zinc oxide	1314-13-2	1 %
Selenium	7782-49-2	0.1 %

### Component Analysis - Inventory

#### Zinc oxide (1314-13-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes

#### Selenium (7782-49-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes

#### Dried Whey (n/a)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
No	No	No	No	No	No	No	No	No	No	No	No	No	No

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**Section 16 - OTHER INFORMATION**

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**Summary of Changes**

New SDS: 01/23/2017

**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; CFR - Code of Federal Regulations (US); 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; 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; 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; KECI - Korea Existing Chemicals Inventory; KECL - Korea Existing Chemicals List; KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; 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; MX - Mexico; NDSL - Non-Domestic Substance List (Canada); 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; 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; 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); WHMIS - Workplace Hazardous Materials Information System (Canada).

**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.

