

Safety Data Sheet

Material Name: Poultry Max™, Product Code: 7300

SDS ID: 7300

Section 1 - PRODUCT AND COMPANY IDENTIFICATION**Material Name**

Poultry Max™, Product Code: 7300

Product Use

Livestock Feed Premix.

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

Marshall, MN 56258

Phone: 1-800-533-5306

Section 2 - HAZARDS IDENTIFICATION**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

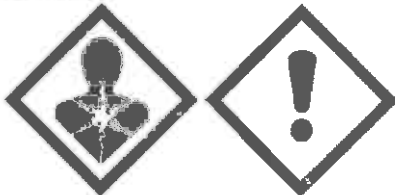
Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

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)

Causes skin irritation.

Causes serious eye irritation.

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.

Wash thoroughly after handling.

Avoid release to the environment.

Safety Data Sheet**Material Name: Poultry Max™, Product Code: 7300****SDS ID: 7300****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 eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

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
471-34-1	Calcium carbonate	35-60
7758-23-8	Monocalcium phosphate	20-45
63-68-3	L-Methionine	1-15

Section 4 - FIRST AID MEASURES**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

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

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 skin irritation.
Causes serious eye irritation.

Delayed

Suspected of damaging fertility or the unborn child.

Note to Physicians

Treat symptomatically.

**Safety Data Sheet****Material Name: Poultry Max™, Product Code: 7300****SDS ID: 7300****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.

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

Harmful to aquatic life with long lasting effects.

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE**Precautions for Safe Handling**

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

Use Personal Protective equipment as required.

Wash thoroughly after handling.

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
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Component Exposure Limits

Calcium carbonate	471-34-1
NIOSH:	10 mg/m ³ TWA total dust ; 5 mg/m ³ TWA respirable dust
Zinc oxide	1314-13-2
ACGIH:	2 mg/m ³ TWA respirable particulate matter
	10 mg/m ³ STEL respirable particulate matter
NIOSH:	5 mg/m ³ TWA dust and fume
	10 mg/m ³ STEL fume
	15 mg/m ³ Ceiling dust
	500 mg/m ³ IDLH
OSHA (US):	5 mg/m ³ TWA fume ; 15 mg/m ³ TWA total dust ; 5 mg/m ³ TWA respirable fraction
Mexico:	5 mg/m ³ TWA VLE-PPT fume ; 10 mg/m ³ TWA VLE-PPT dust
	10 mg/m ³ STEL [PPT-CT] fume
Selenium	7782-49-2
ACGIH:	0.2 mg/m ³ TWA
NIOSH:	0.2 mg/m ³ TWA
	1 mg/m ³ IDLH

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. Wear face protection.

Skin Protection

Wear suitable protective clothing.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

Glove Recommendations

Wear protective gloves.

Safety Data Sheet
Material Name: Poultry Max™, Product Code: 7300
SDS ID: 7300
Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine granular.	Physical State	Solid.
Odor	Odorless.	Color	Tan.
Odor Threshold	Not available	pH	Not available
Melting Point	Not available	Boiling Point	Not available
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition temperature	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.

Keep away from heat.

Incompatible Materials

Strong acids and oxidizing agents.

Material is soluble in acid with concomitant release of carbon dioxide.

Hazardous decomposition products

Phosphorus oxides.

Oxides of sodium.

Thermal decomposition products

Heating of product above 825°C may decompose to calcium oxide with a release of carbon dioxide.

Combustion can yield phosphorus oxides when heated at very high temperatures.

Section 11 - TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure****Skin Contact**

Yes.

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

Monocalcium phosphate (7758-23-8)

Oral LD50 Rat 3986 mg/kg

Dermal LD50 Rabbit >2 g/kg

Sodium chloride (7647-14-5)

Oral LD50 Rat 3 g/kg

Inhalation LC50 Rat >42 g/m³ 1 h**L-Methionine (63-68-3)**

Oral LD50 Rat 36 g/kg

L-Lysine HCl (657-27-2)

Oral LD50 Rat 10 g/kg

White mineral oil (8042-47-5)

Oral LD50 Rat >5000 mg/kg

Zinc oxide (1314-13-2)

Oral LD50 Rat >5000 mg/kg (in water ;no deaths occurred)

Copper(II) chloride oxide hydrate (1332-40-7)

Oral LD50 Rat 833 mg/kg

Dermal LD50 Rat >5000 mg/kg

Zinc sulfate, monohydrate (7446-19-7)

Oral LD50 Mouse 1891 mg/kg

Selenium (7782-49-2)

Oral LD50 Rat 6700 mg/kg

Niacin (59-67-6)

Oral LD50 Rat 7 g/kg

Dermal LD50 Rat >2000 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

Riboflavin (83-88-5)

Oral LD50 Rat >10 g/kg

Calcium pantothenate (137-08-6)

Oral LD50 Rat >10 g/kg



Safety Data Sheet

Material Name: Poultry Max™, Product Code: 7300

SDS ID: 7300

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.

Irritation/Corrosivity Data

No data available.

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Component Carcinogenicity

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.

Safety Data Sheet

Material Name: Poultry Max™, Product Code: 7300

SDS ID: 7300

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Sodium chloride	7647-14-5
Fish:	LC50 96 h <i>Lepomis macrochirus</i> 5560 - 6080 mg/L [flow-through]; LC50 96 h <i>Lepomis macrochirus</i> 12946 mg/L [static]; LC50 96 h <i>Pimephales promelas</i> 6020 - 7070 mg/L [static]; LC50 96 h <i>Pimephales promelas</i> 7050 mg/L [semi-static]; LC50 96 h <i>Pimephales promelas</i> 6420 - 6700 mg/L [static]; LC50 96 h <i>Oncorhynchus mykiss</i> 4747 - 7824 mg/L [flow-through]
Invertebrate:	EC50 48 h <i>Daphnia magna</i> 1000 mg/L IUCLID ; EC50 48 h <i>Daphnia magna</i> 340.7 - 469.2 mg/L [Static] EPA
White mineral oil	8042-47-5
Fish:	LC50 96 h <i>Lepomis macrochirus</i> >10000 mg/L
Niacin	59-67-6
Fish:	LC50 96 h <i>Salmo trutta</i> 520 mg/L
Algae:	EC50 72 h <i>Desmodesmus subspicatus</i> 89.93 mg/L IUCLID
Invertebrate:	EC50 48 h <i>Daphnia magna</i> 77 mg/L IUCLID

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.

International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Safety Data Sheet

Material Name: Poultry Max™, Product Code: 7300
SDS ID: 7300

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)

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

Reproductive Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation

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
Zinc oxide	1314-13-2	Yes	Yes	Yes	Yes	Yes
Selenium	7782-49-2	Yes	Yes	No	Yes	Yes

Not listed under California Proposition 65
Canada Regulations
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 %

Safety Data Sheet
Material Name: Poultry Max™, Product Code: 7300
SDS ID: 7300
Component Analysis - Inventory
Calcium carbonate (471-34-1)

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

Monocalcium phosphate (7758-23-8)

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

Sodium chloride (7647-14-5)

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

Section 16 - OTHER INFORMATION**Summary of Changes**

SDS: 5/14/2018

Supersedes: 10/13/2016

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™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-specific; 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:**

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.

