

## Safety Data Sheet

Material Name: Tactical Start™ Basemix - Meal, Product Code: 5027

SDS ID: 5027

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

Tactical Start™ Basemix - Meal, Product Code: 5027

**Product Use**

Livestock Feed Premix.

**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.**

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.

**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

CAS	Component Name	Percent
n/a	RN Cereal-Sugar Blend	10-40
n/a	Dried Whey	10-40
n/a	Oat Groats (Rolled)	10-40

### 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

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.

### 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.

#### 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

**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.

Hazardous to the Aquatic Environment - Acute.

Hazardous to the Aquatic Environment - Chronic.

### 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.

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

**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**

<b>Calcium carbonate</b>	<b>471-34-1</b>
NIOSH:	10 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable dust
<b>Silica, amorphous, precipitated and gel</b>	<b>112926-00-8</b>
OSHA (US):	20 mppcf TWA ; ((80)/( % SiO2) mg/m3 TWA )
<b>Zinc oxide</b>	<b>1314-13-2</b>
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

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OSHA (US):	5 mg/m3 TWA fume ; 15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction
Mexico:	2 mg/m3 TWA [VLE-PPT ] respirable fraction
	10 mg/m3 STEL [PPT-CT ] respirable fraction
<b>Selenium</b>	<b>7782-49-2</b>
ACGIH:	0.2 mg/m3 TWA
NIOSH:	0.2 mg/m3 TWA
	1 mg/m3 IDLH
Mexico:	0.2 mg/m3 TWA [VLE-PPT ] as Se
<b>Iron oxide (Fe2O3)</b>	<b>1309-37-1</b>
ACGIH:	5 mg/m3 TWA respirable particulate matter
NIOSH:	5 mg/m3 TWA as Fe dust and fume
	2500 mg/m3 IDLH as Fe dust and fume
OSHA (US):	10 mg/m3 TWA fume ; 15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction
Mexico:	5 mg/m3 TWA [VLE-PPT ] respirable fraction
<b>Diatomaceous earth</b>	<b>61790-53-2</b>
OSHA (US):	((80)/(% SiO2) mg/m3 TWA ); 20 mppcf TWA

**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 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	Fine granular.	Physical State	Solid.
Odor	Slight odor.	Color	Dark yellow.
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.

**Incompatible Materials**

None Known.

**Hazardous decomposition products**

None Known.

**Section 11 - TOXICOLOGICAL INFORMATION****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

**Sodium chloride (7647-14-5)**

Oral LD50 Rat 3 g/kg

Inhalation LC50 Rat >42 g/m<sup>3</sup> 1 h

**L-Lysine HCl (657-27-2)**

Oral LD50 Rat 10 g/kg

**Choline chloride (67-48-1)**

Oral LD50 Rat 3400 mg/kg

**Glucose (50-99-7)**

Oral LD50 Rat 25800 mg/kg

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

Oral LD50 Rat 14200 mg/kg

**Corn oil (8001-30-7)**

Oral LD50 Rat >100 mL/kg

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

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

**Copper chloride hydroxide (1332-40-7)**

Oral LD50 Rat 833 mg/kg

Dermal LD50 Rat >5000 mg/kg

**L-Methionine (63-68-3)**

Oral LD50 Rat 36 g/kg

**Copper chloride hydroxide (1332-65-6)**

Oral LD50 Rat 700 - 800 mg/kg

Dermal LD50 Rabbit >2000 mg/kg (moistened with distilled water ;no deaths occurred )

Inhalation LC50 Rat 2.83 mg/L 4 h (males )

**L-Tryptophan (73-22-3)**

Oral LD50 Rat >16 g/kg

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

Oral LD50 Rat 11900 mg/kg

**Calcium phosphate monohydrate (10031-30-8)**

Oral LD50 Rat 17500 mg/kg

**Zinc sulfate, monohydrate (7446-19-7)**

Oral LD50 Mouse 1891 mg/kg

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

Oral LD50 Rat 2600 mg/kg

**Selenium (7782-49-2)**

Oral LD50 Rat 6700 mg/kg

**White mineral oil (8042-47-5)**

Oral LD50 Rat >5000 mg/kg

**Iron oxide (Fe<sub>2</sub>O<sub>3</sub>) (1309-37-1)**

Oral LD50 Rat >10000 mg/kg

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

Oral LD50 Rat 4980 mg/kg

**Calcium pantothenate (137-08-6)**

Oral LD50 Rat >10 g/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

**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

**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**

<b>Silica, amorphous, precipitated and gel</b>	<b>112926-00-8</b>
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))
<b>Clinoptilolite</b>	<b>12173-10-3</b>
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))
<b>Sodium saccharin</b>	<b>128-44-9</b>
IARC:	Monograph 73 [1999] (downgraded from 2B to 3 ); Supplement 7 [1987] ; Monograph 22 [1980] (Group 3 (not classifiable))

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<b>Selenium</b>	<b>7782-49-2</b>
IARC:	Supplement 7 [1987] ; Monograph 9 [1975] (Group 3 (not classifiable))
DFG:	Category 3B (could be carcinogenic for man )
<b>Iron oxide (Fe<sub>2</sub>O<sub>3</sub>)</b>	<b>1309-37-1</b>
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Supplement 7 [1987] ; Monograph 1 [1972] (Group 3 (not classifiable))
DFG:	Category 3B (could be carcinogenic for man ;with the exception of non-bioavailable Ferrous oxides )
<b>Diatomaceous earth</b>	<b>61790-53-2</b>
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))
<b>Cobalt[II] carbonate hydroxide (2:3) monohydrate</b>	<b>51839-24-8</b>
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**

<b>Sodium chloride</b>	<b>7647-14-5</b>
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
<b>L-Lysine HCl</b>	<b>657-27-2</b>
Fish:	LC50 96 h Oryzias latipes >103 mg/L [semi-static ]
<b>Choline chloride</b>	<b>67-48-1</b>
Algae:	EC50 72 h Desmodesmus subspicatus >500 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna Straus >500 mg/L IUCLID ; EC50 48 h Daphnia magna >320 mg/L [Static ] EPA
<b>L-Valine</b>	<b>72-18-4</b>
Fish:	LC50 96 h Danio rerio >10 g/L [semi-static ]
<b>Sodium saccharin</b>	<b>128-44-9</b>
Fish:	LC50 96 h Pimephales promelas 16400 - 20400 mg/L [static ] (30 days old )
<b>Zinc oxide</b>	<b>1314-13-2</b>
Fish:	LC50 96 h Danio rerio 1.55 mg/L [static ]
<b>Copper chloride hydroxide</b>	<b>1332-65-6</b>
Fish:	LC50 96 h Oncorhynchus mykiss 0.082 mg/L [semi-static ]; LC50 96 h Oncorhynchus mykiss 0.29 - 0.55 mg/L [static ]; LC50 96 h Cyprinus carpio 2940 mg/L [static ]; LC50 96 h Lepomis macrochirus >180 mg/L [static ]
<b>Potassium chloride</b>	<b>7447-40-7</b>
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

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Invertebrate:	EC50 48 h Daphnia magna 825 mg/L IUCLID ; EC50 48 h Daphnia magna 83 mg/L [Static ] EPA
<b>Selenium</b>	<b>7782-49-2</b>
Fish:	LC50 96 h Oncorhynchus mykiss >100 mg/L [semi-static ]
<b>White mineral oil</b>	<b>8042-47-5</b>
Fish:	LC50 96 h Lepomis macrochirus >10000 mg/L
<b>Iron oxide (Fe2O3)</b>	<b>1309-37-1</b>
Fish:	LC50 96 h Danio rerio 100000 mg/L [static ] (approximately )
<b>Vitamin A acetate</b>	<b>127-47-9</b>
Fish:	LC50 96 h Oncorhynchus mykiss 1.37 mg/L
<b>Niacin</b>	<b>59-67-6</b>
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
<b>2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-, acetate</b>	<b>7695-91-2</b>
Fish:	LC50 96 h Oncorhynchus mykiss >100 mg/L [static ]

### 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.

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**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.

<b>Choline chloride</b>	<b>67-48-1</b>
IBC Code:	Category Z (solution )
<b>Corn oil</b>	<b>8001-30-7</b>
IBC Code:	Category Y
<b>Potassium chloride</b>	<b>7447-40-7</b>
IBC Code:	Category Z (solution )

**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.

<b>Selenium</b>	<b>7782-49-2</b>
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

**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
<b>Silica, amorphous, precipitated and gel</b>	<b>112926-00-8</b>	No	Yes	Yes	Yes	Yes
<b>Sodium saccharin</b>	<b>128-44-9</b>	No	Yes	No	No	Yes
<b>Corn oil</b>	<b>8001-30-7</b>	No	No	No	No	Yes
<b>Zinc oxide</b>	<b>1314-13-2</b>	Yes	Yes	Yes	Yes	Yes

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<b>Selenium</b>	<b>7782-49-2</b>	Yes	Yes	No	Yes	Yes
<b>Iron oxide (Fe2O3)</b>	<b>1309-37-1</b>	Yes	Yes	Yes	Yes	Yes
<b>Diatomaceous earth</b>	<b>61790-53-2</b>	No	No	Yes	Yes	No

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

Not listed under California Proposition 65.

**Component Analysis - Inventory**
**RN Cereal-Sugar Blend (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

**Dried Whey (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

**Oat Groats (Rolled) (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

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### Section 16 - OTHER INFORMATION

#### Preparation Date

SDS: 3/5/2020

Supersedes: 1/6/2020

#### 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.