

Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

# Section 1 - PRODUCT AND COMPANY IDENTIFICATION

### **Material Name**

Appetite Attack<sup>TM</sup>, Product Code: 5644

### **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 Marshall, MN 56258

Phone: 1-800-533-5306

# **Section 2 - HAZARDS IDENTIFICATION**

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

None needed according to classification criteria.

#### **GHS Label Elements**

### Symbol(s)

None needed according to classification criteria.

## Signal Word

None needed according to classification criteria

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

None needed according to classification criteria.

# **Precautionary Statement(s)**

### **Prevention**

None needed according to classification criteria.

#### Response

None needed according to classification criteria.

#### 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.

# Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent		
n/a	DDGS	50-95		
57-50-1	Sucrose	1-10		

Page 1 of 14 Issue date: 2019-06-10 Revision 1.0 Print date: 2019-06-14



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

# **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.

#### Eves

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**

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.

### **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.

## **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.



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

# **Section 7 - HANDLING AND STORAGE**

## **Precautions for Safe Handling**

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 in a well-ventilated place.

Keep container tightly closed.

Store locked up.

# Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Component Exposure Limits**

Sucrose	57-50-1			
ACGIH:	10 mg/m3 TWA			
NIOSH:	10 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable dust			
OSHA (US):	15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction			
Mexico:	10 mg/m3 TWA [VLE-PPT ]			
Silica, amorphous, precipitated and gel	112926-00-8			
OSHA (US):	20 mppcf TWA; ((80)/(% SiO2) mg/m3 TWA)			
Magnesium oxide	1309-48-4			
ACGIH:	10 mg/m3 TWA inhalable particulate matter			
NIOSH:	750 mg/m3 IDLH fume			
OSHA (US):	15 mg/m3 TWA fume, total particulate			
Mexico:	10 mg/m3 TWA [VLE-PPT ] as Mg inhalable fraction			
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			



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

	500 mg/m3 IDLH			
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			
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			
Selenium	7782-49-2			
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			

## 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.



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

# **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Granular form.	Physical State	Solid.		
Odor	Cereal.	Color	Reddish Brown.		
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	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.

Page 5 of 14 Issue date: 2019-06-10 Revision 1.0 Print date: 2019-06-14



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

# **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:

Sucrose (57-50-1)

Oral LD50 Rat 29700 mg/kg

Sodium bicarbonate (144-55-8)

Oral LD50 Rat 4220 mg/kg

Potassium chloride (7447-40-7)

Oral LD50 Rat 2600 mg/kg

L-Ascorbic acid (50-81-7)

Oral LD50 Rat 11900 mg/kg

Citric acid (77-92-9)

Oral LD50 Rat 3 g/kg

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

FD and C Red No. 40 (25956-17-6)

Oral LD50 Rat >10 g/kg (no deaths occurred)

Dermal LD50 Rabbit 10000 mg/kg

Calcium phosphate monohydrate (10031-30-8)

Oral LD50 Rat 17500 mg/kg

Cinnamaldehyde (104-55-2)

Oral LD50 Rat 2220 mg/kg

Dermal LD50 Rabbit 1260 mg/kg

Vitamin A acetate (127-47-9)

Oral LD50 Rat 4980 mg/kg

Sodium saccharin (128-44-9)

Oral LD50 Rat 14200 mg/kg

Magnesium oxide (1309-48-4)

Oral LD50 Rat 3990 mg/kg (females)

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

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

Page 6 of 14 Issue date: 2019-06-10 Revision 1.0 Print date: 2019-06-14



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

L-Lysine HCl (657-27-2)

Oral LD50 Rat 10 g/kg

Choline chloride (67-48-1)

Oral LD50 Rat 3400 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

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

Oral LD50 Rat >16 g/kg

Zinc sulfate, monohydrate (7446-19-7)

Oral LD50 Mouse 1891 mg/kg

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

Oral LD50 Rat 3 g/kg

Inhalation LC50 Rat >42 g/m3 1 h

**Copper sulfate pentahydrate (7758-99-8)** 

Oral LD50 Rat 960 mg/kg

Dermal LD50 Rabbit >8 g/kg

Selenium (7782-49-2)

Oral LD50 Rat 6700 mg/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

**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.

Page 7 of 14 Issue date: 2019-06-10 Revision 1.0 Print date: 2019-06-14



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

**Component Carcinogenicity** 

Sucrose Sucrose	57-50-1			
ACGIH:	A4 - Not Classifiable as a Human Carcinogen			
Silica, amorphous, precipitated and gel	112926-00-8			
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))			
Clinoptilolite	12173-10-3			
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))			
Magnesium oxide	1309-48-4			
ACGIH:	A4 - Not Classifiable as a Human Carcinogen			
DFG:	Category 4 (no significant contribution to human cancer ;inhalable fraction )			
Cobalt[II] carbonate hydroxide (2:3) monohydrate	51839-24-8			
IARC:	Monograph 52 [1991] (Group 2B (possibly carcinogenic to humans))			
OSHA:	Present			
Diatomaceous earth	61790-53-2			
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))			
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.



**SDS ID: 5644** 

Material Name: Appetite Attack™, Product Code: 5644

**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	144-55-8		
bicarbonate	144-55-6		
Fish:	LC50 96 h Lepomis macrochirus 8250 - 9000 mg/L [static ]		
Invertebrate:	EC50 48 h Daphnia magna 2350 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		
Citric acid	77-92-9		
Fish:	LC50 96 h Lepomis macrochirus 1516 mg/L		
Vitamin A acetate	127-47-9		
Fish:	LC50 96 h Oncorhynchus mykiss 1.37 mg/L		
Sodium saccharin	128-44-9		
Fish:	LC50 96 h Pimephales promelas 16400 - 20400 mg/L [static ] (30 days old )		
Zinc oxide	1314-13-2		
Fish:	LC50 96 h Danio rerio 1.55 mg/L [static ]		
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		



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

L-Lysine HCl	657-27-2		
Fish:	LC50 96 h Oryzias latipes >103 mg/L [semi-static ]		
Choline chloride	67-48-1		
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		
Sodium chloride	7647-14-5		
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		
Potassium iodide	7681-11-0		
Fish:	LC50 96 h Danio rerio >100 mg/L [static ]		
Vitamin E acetate	7695-91-2		
Fish:	LC50 96 h Oncorhynchus mykiss >100 mg/L [static ]		
Copper sulfate pentahydrate	7758-99-8		
Fish:	LC50 96 h Lepomis macrochirus 0.66 - 1.15 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 0.96 - 1.8 mg/L [static]; LC50 96 h Oncorhynchus mykiss 0.1478 - 0.165 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 0.09 - 0.19 mg/L [static]; LC50 96 h Pimephales promelas 0.6752 mg/L [static]		
Invertebrate:	EC50 48 h Daphnia magna 0.147 - 0.227 mg/L [Static ] EPA		
Selenium	7782-49-2		
Fish:	LC50 96 h Oncorhynchus mykiss >100 mg/L [semi-static ]		
White mineral oil	8042-47-5		
Fish:	LC50 96 h Lepomis macrochirus >10000 mg/L		



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

# **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 )			
Citric acid	77-92-9			
IBC Code:	Category Z (<=70%)			
Choline chloride	67-48-1			
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.

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 $>\!100~\mu m$ ); 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 $>\!100~\mu m$ )

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

No hazard categories applicable.



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

## **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
Sucrose	57-50-1	No	Yes	Yes	No	Yes
Silica, amorphous, precipitated and gel	112926-00-8	No	Yes	Yes	Yes	Yes
Sodium saccharin	128-44-9	No	Yes	No	No	Yes
Magnesium oxide	1309-48-4	Yes	Yes	Yes	Yes	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

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

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

Citric acid	77-92-9	1 %
Cinnamaldehyde	104-55-2	0.1 %
Magnesium oxide	1309-48-4	1 %
Zinc oxide	1314-13-2	1 %
Potassium iodide	7681-11-0	1 %
Selenium	7782-49-2	0.1 %



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

# **Component Analysis - Inventory**

# DDGS (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	РН	TH-TECI	TW	VN (Draft)
No	No	No	No	No	No	No

# **Sucrose (57-50-1)**

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

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



Material Name: Appetite Attack™, Product Code: 5644 SDS ID: 5644

# **Section 16 - OTHER INFORMATION**

### **Preparation Date**

SDS: 06/10/2019 Supersedes: 04/08/2019

## 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:

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.