



## Safety Data Sheet

Material Name: Fight Strong® For Cow Stress, Product Code: 2601

SDS ID: 2601

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

Fight Strong® For Cow Stress, Product Code: 2601

**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

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### Section 2 - HAZARDS IDENTIFICATION

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

Serious Eye Damage/Eye Irritation - Category 2A

Skin Sensitization - Category 1A

Carcinogenicity - Category 2

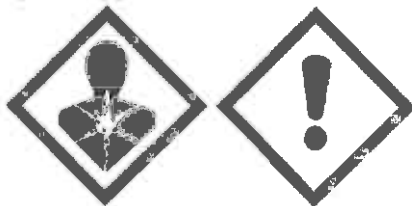
Reproductive Toxicity - Category 2

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 serious eye irritation.

May cause allergic skin reaction.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

Harmful to aquatic life with long lasting effects.



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### Precautionary Statement(s)

#### Prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves.

#### 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 or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

#### Storage

Store locked up.

#### Disposal

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

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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
14977-37-8	Potassium magnesium sulfate	30-55
471-34-1	Calcium carbonate	15-40
n/a	Microlite	10-35

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### Section 4 - FIRST AID MEASURES

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#### 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.



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### 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 serious eye irritation.

May cause an allergic skin reaction.

#### Delayed

Suspected of causing cancer.

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, carbon dioxide, regular dry chemical, 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.

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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/vapours/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

Harmful to aquatic life with long lasting effects.

Avoid release to the environment.



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## 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.

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

Wash thoroughly after handling.

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

Wash contaminated clothing before reuse.

### Conditions for Safe Storage, Including any Incompatibilities

Store locked up.

Store in a well-ventilated place.

Store in a cool, dry place.

Store in a closed container.

Protect from sunlight.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

Calcium carbonate	471-34-1
NIOSH:	10 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable dust
Diatomaceous earth	61790-53-2
OSHA (US):	((80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA); 20 mppcf TWA
Mexico:	10 mg/m <sup>3</sup> TWA VLE-PPT inhalable fraction
Zinc oxide	1314-13-2
ACGIH:	2 mg/m <sup>3</sup> TWA respirable particulate matter
	10 mg/m <sup>3</sup> STEL respirable particulate matter
NIOSH:	5 mg/m <sup>3</sup> TWA dust and fume
	10 mg/m <sup>3</sup> STEL fume
	15 mg/m <sup>3</sup> Ceiling dust
	500 mg/m <sup>3</sup> IDLH
OSHA (US):	5 mg/m <sup>3</sup> TWA fume; 15 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable fraction
Mexico:	5 mg/m <sup>3</sup> TWA VLE-PPT fume; 10 mg/m <sup>3</sup> TWA VLE-PPT dust
	10 mg/m <sup>3</sup> STEL [PPT-CT] fume



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### 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.

### 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

#### Use 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>	Light Green Powder	<b>Physical State</b>	Solid
<b>Odor</b>	odorless	<b>Color</b>	In a Red and Black Capsule.
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Freezing point</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</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**

No data available.

**Thermal decomposition products**

No data available.

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### Section 11 - TOXICOLOGICAL INFORMATION

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**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

Potassium chloride (7447-40-7)

Oral LD50 Rat 2600 mg/kg

Choline chloride (67-48-1)

Oral LD50 Rat 3400 mg/kg

White mineral oil (8042-47-5)

Oral LD50 Rat >5000 mg/kg

Niacin (59-67-6)

Oral LD50 Rat 7 g/kg

Dermal LD50 Rat >2000 mg/kg

Zinc oxide (1314-13-2)

Oral LD50 Rat >5000 mg/kg

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

Oral LD50 Rat >10 g/kg



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Vitamin A acetate (127-47-9)  
 Oral LD50 Rat 4980 mg/kg  
 Copper sulfate pentahydrate (7758-99-8)  
 Oral LD50 Rat 960 mg/kg  
 Riboflavin (83-88-5)  
 Oral LD50 Rat >10 g/kg  
 Vitamin D3 (67-97-0)  
 Oral LD50 Rat 42 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

Menadione sodium bisulfite	130-37-0
IARC:	Monograph 76 [2000] (Group 3 (not classifiable))
Diatomaceous earth	61790-53-2
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))
Cobalt carbonate hydroxide	12602-23-2
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 <i>Lepomis macrochirus</i> 1060 mg/L [static]; LC50 96 h <i>Pimephales promelas</i> 750 - 1020 mg/L [static]
Algae:	EC50 72 h <i>Desmodesmus subspicatus</i> 2500 mg/L IUCLID
Invertebrate:	EC50 48 h <i>Daphnia magna</i> 825 mg/L IUCLID; EC50 48 h <i>Daphnia magna</i> 83 mg/L [Static] EPA
Choline chloride	67-48-1
Algae:	EC50 72 h <i>Desmodesmus subspicatus</i> >500 mg/L IUCLID
Invertebrate:	EC50 48 h <i>Daphnia magna</i> Straus >500 mg/L IUCLID; EC50 48 h <i>Daphnia magna</i> >320 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
Copper sulfate pentahydrate	7758-99-8
Fish:	LC50 96 h <i>Lepomis macrochirus</i> 0.66 - 1.15 mg/L [semi-static]; LC50 96 h <i>Lepomis macrochirus</i> 0.96 - 1.8 mg/L [static]; LC50 96 h <i>Oncorhynchus mykiss</i> 0.1478 - 0.165 mg/L [flow-through]; LC50 96 h <i>Oncorhynchus mykiss</i> 0.09 - 0.19 mg/L [static]; LC50 96 h <i>Pimephales promelas</i> 0.6752 mg/L [static]
Invertebrate:	EC50 48 h <i>Daphnia magna</i> 0.147 - 0.227 mg/L [Static] EPA

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations. Avoid release to the environment.





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## Section 14 - TRANSPORT INFORMATION

### US DOT Information:

No Classification assigned.

### TDG Information:

No Classification assigned.

## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

None of this products 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.

### 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
Diatomaceous earth	61790-53-2	No	No	Yes	Yes	No
Zinc oxide	1314-13-2	Yes	Yes	Yes	Yes	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 %
Potassium iodide (KI)	7681-11-0	1 %

### Component Analysis - Inventory

Calcium carbonate (471-34-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes



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### Section 16 - OTHER INFORMATION

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#### Summary of Changes

SDS: 10/05/2016

Supercedes: 10/12/2015

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; 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; EEC - European Economic Community; 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; JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL - Korea Existing Chemicals List; KR - Korea; 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; 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; 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; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

#### 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.