

**SECTION 1: Identification**

1.1. Identification

Product form : Mixture  
Product name : Cooper Layer 2 lb VTM with Ronozyme Econase  
Product code : P\_71039\_159\_1

1.2. Recommended use and restrictions on use

1.3. Supplier

Alltech Feed  
111 W. Cherry Street, Suite 500  
Mankato, MN 56001  
T + 800-869-7219

1.4. Emergency telephone number

Emergency number : + 1 507 388 9400 M-F 8AM - 5PM

**SECTION 2: Hazard(s) identification**

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation, Category 2 Causes serious eye irritation.  
Combustible Dust May form combustible dust concentrations in air

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Warning

Hazard statements (GHS US)

: May form combustible dust concentrations in air  
Causes serious eye irritation.

Precautionary statements (GHS US)

: Wash hands, forearms and face thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
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.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Persons with allergies should avoid exposure.

2.4. Unknown acute toxicity (GHS US)

Not applicable

**SECTION 3: Composition/information on ingredients**

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
IRON SULF MONO 31%	(CAS-No.) 17375-41-6	5 – 10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Niacinamide	(CAS-No.) 98-92-0	2.5 – 5	Eye Irrit. 2, H319
Basic copper chloride	(CAS-No.) 1332-65-6	> 1.241537342447412	Acute Tox. 4 (Oral), H302

# Cooper Layer 2 Ib VTM with Ronozyme Econase

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS US classification
Oil Mineral Bulk	(CAS-No.) 8042-47-5	1 – 2.5	Acute Tox. 3 (Inhalation:vapour), H331 Asp. Tox. 1, H304

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : 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.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after eye contact : Eye irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product.
- Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid dust formation. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

# Cooper Layer 2 lb VTM with Ronozyme Econase

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>Cooper Layer 2 lb VTM with Ronozyme Econase</b>	
No additional information available	
<b>Basic copper chloride (1332-65-6)</b>	
No additional information available	
<b>Oil Mineral Bulk (8042-47-5)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Inhalable fraction)
<b>Niacinamide (98-92-0)</b>	
No additional information available	
<b>IRON SULF MONO 31% (17375-41-6)</b>	
No additional information available	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
 Environmental exposure controls : Avoid release to the aquatic environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

Protective gloves

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### Personal protective equipment symbol(s):



##### Other information:

Persons with allergies should avoid exposure.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : Mixture contains one or more component(s) which have the following colour(s):  
 Yellow to orange On exposure to light: turns dark White Colourless to light yellow White to light yellow  
 On exposure to light: yellow Colourless to white Light yellow On exposure to air: discolours  
 On exposure to light: discolours Colourless On exposure to air: turns red to red-brown  
 On exposure to light: turns red-brown White to yellow On exposure to light: violet Yellow-orange  
 Green White to yellow-grey White to off-white

Odour : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.  
 Mixture contains one or more component(s) which have the following odour:  
 Odourless Almost odourless Phenol odour Mild odour Characteristic odour Vinegar odour

Odour threshold : No data available

# Cooper Layer 2 lb VTM with Ronozyme Econase

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid dust formation. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Basic copper chloride (1332-65-6)	
LD50 oral rat	1440 mg/kg
ATE US (oral)	1440 mg/kg bodyweight
Oil Mineral Bulk (8042-47-5)	
LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Read-across, Oral)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal)
LC50 inhalation rat (mg/l)	> 5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol))

# Cooper Layer 2 lb VTM with Ronozyme Econase

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Oil Mineral Bulk (8042-47-5)</b>	
ATE US (vapours)	3 mg/l/4h

<b>IRON SULF MONO 31% (17375-41-6)</b>	
ATE US (oral)	500 mg/kg bodyweight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after eye contact	: Eye irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

# Cooper Layer 2 lb VTM with Ronozyme Econase

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Air transport

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<b>Basic copper chloride (1332-65-6)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Oil Mineral Bulk (8042-47-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Niacinamide (98-92-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>IRON SULF MONO 31% (17375-41-6)</b>
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

<b>Basic copper chloride (1332-65-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Niacinamide (98-92-0)</b>
Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

No additional information available

National regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SDS US (GHS HazCom 2012)

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