SECTION 1: Identification

1.1. Identification
Product form : Mixture
Product name : MULTIMIN™ 90

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : For veterinary use only - Injectable supplement for use in Cattle. USE ONLY IN CATTLE BY SUBCUTANEOUS INJECTION

1.3. Details of the supplier of the safety data sheet
MULTIMIN NORTH AMERICA, Inc.
2809 East Harmony Road, SUITE #190
Fort Collins, Colorado 80528 - United States
T 970.372.2302 - F 970.631.8945

1.4. Emergency telephone number
Emergency number : +1.970.372.2302

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Acute Tox. 4 (Oral)  H302 - Harmful if swallowed
Eye Irrit. 2A       H319 - Causes serious eye irritation
Full text of H statements : see section 16

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US) :

\[ ! \]

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) :
H302 - Harmful if swallowed
H319 - Causes serious eye irritation
Precautionary statements (GHS-US) :
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear eye protection, protective gloves
P301+P312 - If swallowed: Call a doctor if you feel unwell
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P330 - Rinse mouth
P337+P313 - If eye irritation persists: Get medical advice/attention
P501 - Dispose of contents/container to Collection point

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
7.1% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
43.8% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
43.8% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable
3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/v)</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>copper disodium edta</td>
<td>(CAS-No.) 14025-15-1</td>
<td>5 - 10</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>sodium selenite</td>
<td>(CAS-No.) 10102-18-8</td>
<td>0.1 - 1.1</td>
<td>Acute Tox. 2 (Oral), H300</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 (Inhalation), H331</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>chlorocresol</td>
<td>(CAS-No.) 59-50-7</td>
<td>&lt;= 0.1</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Dermal), H312</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
</tbody>
</table>

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact: Causes serious eye irritation.

Symptoms/effects after ingestion: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard: No particular fire or explosion hazard.

Reactivity: No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions: Move containers away from the fire area if this can be done without risk.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Fire-resistant protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Do not breathe aerosol. Do not touch spilled material. Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.

Emergency procedures: Stop leak without risks if possible. Evacuate area.

6.1.2. For emergency responders

Protective equipment: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.

Emergency procedures: Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.
6.3. Methods and material for containment and cleaning up

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up: Absorb and/or contain spill with inert material, then place in suitable container. Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid contact with skin and eyes. Wear proper protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container tightly closed.


Heat and ignition sources: Keep away from heat, sparks and flame.

Prohibitions on mixed storage: Incompatible materials.

Storage area: Store in dry, cool, well-ventilated area. Keep out of reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Appropriate engineering controls: Avoid creating mist or spray. Sharps container.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Use rubber gloves.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH. Approved respirator.

Environmental exposure controls: Prevent leakage or spillage.

Consumer exposure controls: Keep out of reach of children.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Clear.

Colour: Blue

Odour: Odourless

Odour threshold: No data available

pH: 8

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Relative evaporation rate (butylacetate=1): No data available

Flammability (solid, gas): No data available

Explosive limits: No data available

Explosive properties: No data available

Oxidising properties: No data available

Vapour pressure: No data available
MULTIMIN™ 90
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, NOM-018-STPS-2000

**Relative density**: 1.3

**Relative vapour density at 20 °C**: No data available

**Solubility**: No data available

**Log Pow**: No data available

**Auto-ignition temperature**: No data available

** Decomposition temperature**: No data available

**Viscosity**: No data available

**Viscosity, kinematic**: No data available

**Viscosity, dynamic**: No data available

9.2. Other information

**VOC content**: 0 %

---

**SECTION 10: Stability and reactivity**

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Acids. Caustic products.

10.6. Hazardous decomposition products


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**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

**Likely routes of exposure**

Skin and eye contact

**Acute toxicity**

Oral: Harmful if swallowed.

**MULTIMIN™ 90**

**LD₅₀ dermal rat**: > 2000 mg/kg

**ATE US (oral)**: 568.1898827604 mg/kg bodyweight

**Copper disodium EDTA (14025-15-1)**

**LD₅₀ dermal rat**: > 2000 mg/kg

**ATE US (oral)**: 500 mg/kg bodyweight

**Sodium selenite (10102-18-8)**

**LD₅₀ oral rat**: 7 mg/kg

**ATE US (oral)**: 7 mg/kg bodyweight

**ATE US (gases)**: 700 ppmv/4h

**ATE US (vapours)**: 3 mg/l/4h

**ATE US (dust,mist)**: 0.5 mg/l/4h

**Chlorocresol (59-50-7)**

**LD₅₀ oral rat**: 1830 mg/kg

**ATE US (oral)**: 1830 mg/kg bodyweight

**ATE US (dermal)**: 1100 mg/kg bodyweight

**Skin corrosion/irritation**: Not classified

(Not irritating to skin. (in vitro))

**Serious eye damage/irritation**: Causes serious eye irritation.

**Respiratory or skin sensitisation**: Not classified.

(No sensitizing reaction was observed for guinea pigs)
MULTIMIN™ 90
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, NOM-018-STPS-2000

**Germ cell mutagenicity** : Not classified

**Carcinogenicity** : Not classified

**Reproductive toxicity** : Not classified

**Specific target organ toxicity (single exposure)** : Not classified

**Specific target organ toxicity (repeated exposure)** : Not classified

**Aspiration hazard** : Not classified

**Symptoms/effect after eye contact** : Causes serious eye irritation.

**Symptoms/effect after ingestion** : Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecology - general** : No ecotoxicological data about this product are known.

**copper disodium edta (14025-15-1)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 100 mg/l 96 h</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>100.9 mg/l</td>
</tr>
</tbody>
</table>

**sodium selenite (10102-18-8)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>1.8 mg/l 96 h</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>1.1 mg/l 48 h</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**MULTIMIN™ 90**

Persistence and degradability : Not established.

#### 12.3. Bioaccumulative potential

**MULTIMIN™ 90**

Bioaccumulative potential : Not established.

#### 12.4. Mobility in soil

**MULTIMIN™ 90**

Ecology - soil : No additional information available.

#### 12.5. Other adverse effects

**Other information** : No additional information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Waste treatment methods** : Dispose of in authorized waste collection plant. Do not dispose in household garbage.

**Sewage disposal recommendations** : Do not dispose of waste into sewer.

**Waste disposal recommendations** : Dispose in a safe manner in accordance with local/national regulations.

**Ecology - waste materials** : Avoid release to the environment.

### SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

**Non bulk (< 25974 lbs)** : Not regulated

**Bulk (>= 25974 lbs)**:

- **Transport document description** : RQ, UN3082 Environmentally hazardous substances, liquid, n.o.s. (sodium selenite), 9, III
- **UN-No.(DOT)** : UN3082
MULTIMIN™ 90
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, NOM-018-STPS-2000

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.
sodium selenite
Transport hazard class(es) (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Packing group (DOT) : III - Minor Danger
Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)

Transport by sea
Not regulated.
Air transport
Not regulated.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS-No.</th>
<th>Quantity (TPQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium selenite</td>
<td>10102-18-8</td>
<td>0.1 - 1.1%</td>
</tr>
<tr>
<td>chlorocresol (59-50-7)</td>
<td></td>
<td>10000 lb 100lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form</td>
</tr>
</tbody>
</table>

15.2. International regulations

CANADA

copper disodium edta (14025-15-1)
Listed on the Canadian DSL (Domestic Substances List) inventory.

sodium selenite (10102-18-8)
Listed on the Canadian DSL (Domestic Substances List) inventory.

chlorocresol (59-50-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

copper disodium edta (14025-15-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

sodium selenite (10102-18-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

chlorocresol (59-50-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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
**sodium selenite (10102-18-8)**

- U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
- U.S. - Maine - Air Pollutants - Hazardous Air Pollutants
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
- U.S. - Pennsylvania - RTK (Right to Know) List

**chlorocresol (59-50-7)**

- U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
- U.S. - Pennsylvania - RTK (Right to Know) List

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### SECTION 16: Other information

**Revision date:** 05/17/2017

**Data sources:**

- ACGIH (American Conference of Government Industrial Hygienists).

**Other information:** None.

**Full text of H-statements:**

- **H300**: Fatal if swallowed
- **H302**: Harmful if swallowed
- **H312**: Harmful in contact with skin
- **H317**: May cause an allergic skin reaction
- **H318**: Causes serious eye damage
- **H319**: Causes serious eye irritation
- **H331**: Toxic if inhaled
- **H400**: Very toxic to aquatic life
- **H411**: Toxic to aquatic life with long lasting effects

**Abbreviations and acronyms:**

- ATE: Acute Toxicity Estimate
- CAS (Chemical Abstracts Service) number
- CLP: Classification, Labelling, Packaging
- EC50: Environmental Concentration associated with a response by 50% of the test population.
- European List of Waste (LoW) code
- GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
- LD50: Lethal Dose for 50% of the test population
- OSHA: Occupational Safety & Health Administration
- PBT: Persistent, Bioaccumulative, Toxic
- STEL: Short Term Exposure Limits
- TSCA: Toxic Substances Control Act
- TWA: Time Weighted Average
NFPA health hazard: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

Hazard Rating
Health: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability: 0 Minimal Hazard - Materials that will not burn
Physical: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:
Supplier information.

SDS Prepared by: The Redstone Group, LLC.
6077 Frantz Rd.
Suite 206
Dublin, Ohio, USA 43016
614.923.7472
www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.