

# Safety Data Sheet

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

Date of issue: 05/21/2015

Revision date: 05/21/2015

Supersedes: 06/01/2013

Version: 2.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name

: Manage

Product form

: Mixture

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

## 1.3. Details of the supplier of the safety data sheet

Best Veterinary Solutions, Inc. 325 NE Lakeland Dr. Wilmar, MN 56201 Phone: 320-235-8611 Toll-free: 1-800-533-1899

Fax: 320-235-8629

#### 1.4. Emergency telephone number

Emergency number

: 1-800-424-1899

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### **GHS-US classification**

Skin Corr. 1A H314

#### 2.2. Label elements

#### **GHS-US labelling**

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US)

## Danger

Hazard statements (GHS-US)

Precautionary statements (GHS-US)

H314 - Causes severe skin burns and eye damage

P260 - Do not breathe mist, spray, vapours

P264 - Wash hands thoroughly after handling P280 - Wear eye protection, face shield, protective gloves, protective clothing

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes, Remove

contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor, a poison center

P321 - Specific treatment (see first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No data available

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

# 3.1. Substance

Not applicable

#### 3,2, Mixture

Name	Product identifier	%
Citric acid	(CAS No) 77-92-9	10 - 30
Copper (II) sulfate pentahydrate (1:1:5)	(CAS No) 7758-99-8	10 - 30

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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the

doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an

unconscious person.

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

medical attention if breathing is affected. If breathing is difficult, supply oxygen.

least 15 minutes. Get medical attention immediately.

First-aid measures after eye contact f IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact

lenses if present and easy to do so. Get medical attention immediately, Continue rinsing.

IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison

control center or medical professional. Get medical attention if you feel unwell.

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

Symptoms/injuries after inhalation 

May cause respiratory irritation.

Symptoms/injuries after skin contact Causes severe skin burns and eye damage.

Symptoms/injuries after eye contact Causes serious eye damage.

Symptoms/injuries after ingestion May cause gastrointestinal irritation.

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

No additional information available.

First-aid measures after ingestion

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Dry chemical. Carbon dioxide.

Unsuitable extinguishing media : None know

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No data to indicate that product is flammable.

Explosion hazard : No data available.

Reactivity : No dangerous reactions known under normal conditions of use.

# 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting 

Do not enter fire area without proper protective equipment, including respiratory protection.

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evolve sulfur trioxide above 600°C.

# **SECTION 6: Accidental release measures**

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

General measures Spill should be handled by trained clean-up crews properly equipped with respiratory

equipment and full chemical protective gear (see Section 8). Evacuate area. Ventilate area.

: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

Keep upwind.

## 6.1.1. For non-emergency personnel

Protective equipment Wear Protective equipment as described in Section 8.

Emergency procedures Evacuate unnecessary personnel.

# 6.1.2. For emergency responders

Protective equipment

respirator, in case of emergency.

#### 6,2, Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

# 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. Prevent entry to sewers and public waters.

Methods for cleaning up

Dispose of material in compliance with local, state, and federal regulations. Ventilate area.

Neutralize spills with soda ash or lime. Sweep up material and place in an appropriate chemical waste container for disposal. Do not discharge to sewers or waterways.

#### 6.4. Reference to other sections

No additional information available

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## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions

Keep out of reach of children. Keep container tightly closed. Keep in properly labeled containers. Store in a cool dry place. Avoid temperatures over 110°F. Store in plastic, rubber or stainless steel containers.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

Citric acid (77-92-9)		
Remark (ACGIH)	OELs not established	
Remark (OSHA)	OELs not established	
Phosphoric acid (7664-38-2)		
ACGIH TWA (mg/m³)	1 mg/m³	
ACGIH STEL (mg/m³)	3 mg/m³	
OSHA PEL (TWA) (mg/m³)	1 mg/m³	
OSHA PEL (STEL) (mg/m³)	3 mg/m³	
Copper (II) sulfate pentahydrate (1:1:5)	7758-99-8)	
Remark (ACGIH)	OELs not established	
Remark (OSHA)	OELs not established	

#### 8.2. Exposure controls

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Wear chemical goggles and face shield in combination. Gloves. Wear chemically impervious apron over labcoat and full coverage clothing.







Hand protection

: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection

Wear eye protection, including chemical splash goglles and a face shield. Goggles and a face shield must be worn in combination.

Skin and body protection

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection

Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

#### **SECTION 9: Physical and chemical properties**

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

Physical state :: Liquid

Appearance : Purple, transparent freely flowing liquid.

Color : No data available.

Odor : Odorless.
Odor Threshold : No data available

pH : <2

Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

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Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility Infinite solubility in water, Log Pow No data available Log Kow No data available Viscosity, kinematic No data available Viscosity, dynamic No data available **Explosive properties** No data available Oxidising properties No data available **Explosive limits** No data available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Temperatures over 110°F.

# 10.5. Incompatible materials

Mild steel.

# 10.6. Hazardous decomposition products

May form toxic materials.

Serious eye damage/irritation

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

3000 mg/kg	
2740 mg/kg	
> 850 mg/m³ 1h	
	2740 mg/kg

Copper (II) sulfate pentahydrate (1:1:5) (7758-	99-8)	
LD50 oral rat	960 mg/kg	 

Skin corrosion/irritation Causes severe skin burns and eye damage.

pH: < 2 Not classified

pH: < 2
Respiratory or skin sensitisation : Not classified
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 : Not classified

exposure)

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Aspiration hazard Not classified

Symptoms/injuries after inhalation May cause respiratory irritation.

Symptoms/injuries after skin contact Causes severe skin burns and eye damage,

Symptoms/injuries after eye contact Causes serious eye damage. Symptoms/injuries after ingestion May cause gastrointestinal 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. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities,

No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose of in accordance with local/national regulations. Do not allow the product to be

released into the environment. Do not re-use empty containers.

# **SECTION 14: Transport Information**

In accordance with DOT

: UN1760 Corrosive liquids, n.o.s., 8, III Transport document description

UN-No.(DOT) 1760 DOT NA no. **UN1760** 

Proper Shipping Name (DOT) Corresive liquids, n.o.s. : 8 - Class 8 - Corrosive material 49 CFR 173.136

Department of Transportation (DOT) Hazard

Classes

Hazard labels (DOT) 8 - Corrosive



Packing group (DOT) : III - Minor Danger

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 1560 L

CFR 175.75)

**DOT Vessel Stowage Location** 

A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

**DOT Vessel Stowage Other** 240 - Stow "clear of living quarters"

Additional information

Other information : No supplementary information available.

# Transport by sea

No additional information available

Air transport

No additional information available

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# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

Manage	
All chemical substances in this product are listed or exempt.	in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

Ammonium Carbamate (111-78-0)		
Section 302 (EHS) TPQ		
Section 304 EHS RQ		_
CERCLA RQ	5000	lbs
Section 313	Not Listed on US SARA Section 313	
Ammonium Hydrogencarbonate (1066-33-7)		
Section 302 (EHS) TPQ		
Section 304 EHS RQ		
CERCLA RQ	5000	lbs
Section 313	Not Listed on US SARA Section 313	
Phosphoric Acid (7664-38-2)		
Section 302 (EHS) TPQ		_
Section 304 EHS RQ		
CERCLA RQ	5000	lbs
Section 313	Not Listed on US SARA Section 313	

# 15.2. International regulations

#### CANADA

No additional information available.

# 15.3. US State regulations

# **California Proposition 65**

This product does not contain chemicals known to the state of California to cause cancer and/or other reproductive harm.

## Ammonium carbamate (1111-78-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List U.S. Pennsylvania RTK (Right to Know) List

# Carbonic acid, monoammonium sait (1066-33-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# Phosphoric acid (7664-38-2)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

#### **SECTION 16: Other information**

Revision date 05/21/2015 Other information . Author: ZPT.

NFPA health hazard : 3 - Short exposure could cause serious temporary or

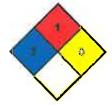
residual injury even though prompt medical attention was

aiven.

NFPA fire hazard 1 - Must be preheated before ignition can occur.

0 - Normally stable, even under fire exposure conditions, NFPA reactivity

and are not reactive with water.



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#### HMI\$ III Rating

Health : 3

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Flammability	₫ 1	
Physical	0	
Personal Protection	8	

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