

# SAFETY DATA SHEET



Revision date: 23-Apr-2014

Version: 2.0

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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

### Product Identifier

**Material Name:** Cop-R-Sol

**Trade Name:** Not established

**Chemical Family:** Mixture

### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Intended Use:** Veterinary product used as dietary supplement

**Restrictions on Use:** Not for human use

### Details of the Supplier of the Safety Data Sheet

Zoetis Inc.  
100 Campus Drive, P.O. Box 651  
Florham Park, New Jersey 07932 (USA)  
Rocky Mountain Poison Control Center Phone: 1-866-531-8896  
Product Support/Technical Services Phone: 1-800-366-5288

Zoetis Belgium S.A.  
Mercuriusstraat 20  
1930 Zaventem  
Belgium

**Emergency telephone number:**  
**CHEMTREC (24 hours): 1-800-424-9300**  
**Contact E-Mail:** VMIPSrecords@zoetis.com

**Emergency telephone number:**  
**International CHEMTREC (24 hours): +1-703-527-3887**

## 2. HAZARDS IDENTIFICATION

**Appearance:** Bright Blue liquid

### Classification of the Substance or Mixture

#### GHS - Classification

Acute Oral Toxicity: Category 4

Skin Corrosion/Irritation: Category 1

Serious Eye Damage/Eye Irritation: Category 1

Specific target organ systemic toxicity (single exposure): Category 3

Acute aquatic toxicity: Category 1

#### EU Classification:

EU Indication of danger: C - Corrosive

Xn - Harmful

N - Dangerous for the environment

R22 - Harmful if swallowed.

R34 - Causes burns.

R37 - Irritating to respiratory system.

R50 - Very toxic to aquatic organisms.

### Label Elements

**Signal Word:** Danger

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### 2. HAZARDS IDENTIFICATION

- Hazard Statements:**
- H302 - Harmful if swallowed
  - H314 - Causes severe skin burns and eye damage
  - H335 - May cause respiratory irritation
  - H400 - Very toxic to aquatic life
- Precautionary Statements:**
- P264 - Wash hands thoroughly after handling
  - P270 - Do not eat, drink or smoke when using this product
  - P260 - Do not breathe dust/fume/gas/mist/vapors/spray
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection
  - P271 - Use only outdoors or in a well-ventilated area
  - P273 - Avoid release to the environment
  - 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
  - P363 - Wash contaminated clothing before reuse
  - P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
  - P310 - Immediately call a POISON CENTRE or doctor/physician
  - P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
  - P391 - Collect spillage
  - P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
  - P405 - Store locked up
  - P501 - Dispose of contents/container in accordance with all local and national regulations



#### Other Hazards

**Australian Hazard Classification (NOHSC):**

Hazardous Substance. Dangerous Goods.

#### Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Copper Carbonate	12069-69-1	235-113-6	Xn; R22 N; R50	Acute Tox. Cat 4 (H302) Aquatic Acute 1 (H400)	7-13
Citric acid	77-92-9	201-069-1	Xi; R36	Eye Irrit. 2 (H319)	10-30

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ammonium hydroxide	1336-21-6	215-647-6	Xn; R22 C; R34 N; R50	Acute Tox. Cat 4 (H302) Skin Corr. 1B (H314) STOT Cat. 3 (H335) Aquatic Acute 1 (H400)	10-30
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**Additional Information:** Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

**Description of First Aid Measures**

**Eye Contact:** Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

**Ingestion:** In the event of swallowing this material, seek immediate medical attention. **DO NOT INDUCE VOMITING.**

**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Symptoms and Effects of Exposure:** No data available

**Medical Conditions Aggravated by Exposure:** None known

**Indication of the Immediate Medical Attention and Special Treatment Needed**

**Notes to Physician:** None

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO<sub>2</sub>, extinguishing powder, foam, or water.

**Special Hazards Arising from the Substance or Mixture**

**Hazardous Combustion Products:** Formation of toxic gases is possible during heating or fire.

**Fire / Explosion Hazards:** Fine particles (such as dust and mists) may fuel fires/explosions.

**Advice for Fire-Fighters**

Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear. Dike and collect water used to fight fire.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

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### 6. ACCIDENTAL RELEASE MEASURES

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

#### Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

#### Methods and Material for Containment and Cleaning Up

**Measures for Cleaning / Collecting:** Contain the source of the spill if it is safe to do so. Clean contaminated surface thoroughly.

**Additional Consideration for Large Spills:** Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

### 7. HANDLING AND STORAGE

#### Precautions for Safe Handling

Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Keep away from heat, sparks, and flame. Prevent environmental releases.

#### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions:** Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames. Keep containers tightly closed in a cool, well-ventilated place. Keep away from direct sunlight.

**Incompatible Materials:** Acids, Strong oxidising agents, Copper, Copper alloys, aluminum

**Specific end use(s):** No data available

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

#### Copper Carbonate

ACGIH Threshold Limit Value (TWA) 1 mg/m<sup>3</sup>  
Finland OEL - TWA 1 mg/m<sup>3</sup>

#### Exposure Controls

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section.

**Personal Protective Equipment:** Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

**Hands:** Wear impervious gloves if skin contact is possible.

**Eyes:** Wear safety goggles as minimum protection (face shield recommended if splashing is possible).

**Skin:** Wear impervious disposable protective clothing to prevent skin contact.

**Respiratory protection:** If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Color:</b>	Blue
<b>Odor:</b>	None	<b>Odor Threshold:</b>	No data available.
<b>Molecular Formula:</b>	Mixture	<b>Molecular Weight:</b>	Mixture
<b>Solvent Solubility:</b>	No data available		
<b>Water Solubility:</b>	Soluble		
<b>pH:</b>	No data available.		
<b>Melting/Freezing Point (°C):</b>	No data available		
<b>Boiling Point (°C):</b>	84		
<b>Partition Coefficient: (Method, pH, Endpoint, Value)</b>			
No data available			
<b>Decomposition Temperature (°C):</b>	No data available.		
<b>Evaporation Rate (Gram/s):</b>	No data available		
<b>Vapor Pressure (kPa):</b>	No data available		
<b>Vapor Density (g/ml):</b>	No data available		
<b>Relative Density:</b>	No data available		
<b>Specific Gravity:</b>	1.17		
<b>Viscosity:</b>	No data available		
<b>Flammability:</b>			
<b>Autoignition Temperature (Solid) (°C):</b>		No data available	
<b>Flammability (Solids):</b>		No data available	
<b>Flash Point (Liquid) (°C):</b>		No data available	
<b>Upper Explosive Limits (Liquid) (% by Vol.):</b>		No data available	
<b>Lower Explosive Limits (Liquid) (% by Vol.):</b>		No data available	

### 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions of use.
<b>Possibility of Hazardous Reactions</b>	
<b>Oxidizing Properties:</b>	No data available
<b>Conditions to Avoid:</b>	Fine particles (such as dust and mists) may fuel fires/explosions.
<b>Incompatible Materials:</b>	Acids , Strong oxidising agents. , Copper , Copper alloys , aluminum
<b>Hazardous Decomposition Products:</b>	Nitrogen oxides (nox) , Ammonia , Carbon oxides , Copper oxides

### 11. TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects

**General Information:** The information included in this section describes the potential hazards of the individual ingredients. Toxicological properties of the formulation have not been investigated.

#### Acute Toxicity: (Species, Route, End Point, Dose)

##### Citric acid

Rat Oral LD50 3000 mg/kg

##### Copper Carbonate

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### 11. TOXICOLOGICAL INFORMATION

Rat Oral LD50 1350 mg/kg

#### Ammonium hydroxide

Rat Oral LD50 350 mg/kg

#### Irritation / Sensitization: (Study Type, Species, Severity)

##### Citric acid

Eye Irritation Rabbit Severe

Skin Irritation Rabbit Mild

##### Ammonium hydroxide

Eye Irritation Rabbit Severe

#### Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

### 12. ECOLOGICAL INFORMATION

#### Environmental Overview:

Very toxic to aquatic organisms. Releases to the environment should be avoided.

#### Toxicity:

##### Copper Carbonate

*Scenedesmus subspicatus* (Green Alga) EC50 72 Hours 0.120 mg/L

*Oncorhynchus mykiss* (Rainbow Trout) *Lepomis macrochirus* (Bluegill Sunfish) LC50 96 Hours 0.0138 mg/L

*Pimephales promelas* (Fathead Minnow) LC50 96 Hours 0.023 mg/L

*Lepomis macrochirus* (Bluegill Sunfish) LC50 96 Hours 0.236 mg/L

*Daphnia magna* (Water Flea) LC50 96 Hours 0.010 mg/L

*Daphnia magna* (Water Flea) LC50 96 Hours 0.200 mg/L

##### Ammonium hydroxide

*Daphnia magna* (Water Flea) LC50 48 Hours 0.66 mg/L

*Lepomis macrochirus* (Bluegill Sunfish) LC50 48 Hours 0.024 mg/L

*Pimephales promelas* (Fathead Minnow) LC50 96 Hours 8.2 mg/L

#### Persistence and Degradability:

No data available

#### Bio-accumulative Potential:

No data available

#### Mobility in Soil:

No data available

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### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:**

This product may qualify as a RCRA Hazardous Waste. Status should be confirmed by testing for RCRA hazardous characteristics (i.e. corrosivity, toxicity, reactivity, or ignitability). Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

### 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

This material is regulated for transportation as a hazardous material/dangerous good.

**UN number:** UN 2672  
**UN proper shipping name:** Ammonia solution  
**Transport hazard class(es):** 8  
**Packing group:** III  
**Environmental Hazard(s):** Marine Pollutant (Ammonium Hydroxide, Copper Carbonate)

Please refer to the applicable dangerous goods regulations for additional information.

### 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

**Canada - WHMIS: Classifications**

**WHMIS hazard class:**

Class D, Division 2, Subdivision B

Class E

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.



**Copper Carbonate**

<b>CERCLA/SARA 313 Emission reporting</b>	Not Listed
<b>California Proposition 65</b>	Not Listed
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Australia (AICS):</b>	Present
<b>EU EINECS/ELINCS List</b>	235-113-6

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### 15. REGULATORY INFORMATION

#### Citric acid

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	201-069-1

#### Ammonium hydroxide

CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	1000 lb 454 kg
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Schedule 5 Schedule 6
EU EINECS/ELINCS List	215-647-6

### 16. OTHER INFORMATION

#### Text of R phrases and GHS Classification abbreviations mentioned in Section 3

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H400 - Very toxic to aquatic life

C - Corrosive  
Xn - Harmful  
N - Dangerous for the environment

R22 - Harmful if swallowed.  
R34 - Causes burns.  
R36 - Irritating to eyes.  
R50 - Very toxic to aquatic organisms.

#### Data Sources:

The data contained in this MSDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

#### Reasons for Revision:

Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 5 - Fire Fighting Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 9 - Physical and Chemical Properties. Updated Section 10 - Stability and Reactivity. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 14 - Transport Information. Updated Section 15 - Regulatory Information.

#### Prepared by:

Toxicology and Hazard Communication  
Zoetis Global Risk Management

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Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet**