



Kopertox

# Material Safety Data Sheet

WW MSDS No. 30-0752

## Section 1. Product and Company Identification

Manufactured/ Supplied by	Fort Dodge Animal Health 800 5th Street NW P.O. Box 518 Fort Dodge, IA 50501 Phone: 515-955-4600 Fax: 515-955-9149	Date of Preparation	22 June 2004
		Product No.	30-0752
		Formula No.	Not available.
		CAS No.	Mixture.
		U.N. No.	UN1993
		EINECS No.	Not applicable.
Product Trade Name	Kopertox	<b><u>In Case of Emergency</u></b>	515-955-6033
Common Name	Not applicable.		
Synonyms	Not available.		
Chemical Formula	Mixture.		
Chemical Family	Not available.		
Material Uses	Pharmaceutical: Veterinary pharmaceutical.		
Packaging	Plastic bottles.		
Formula Type	Liquid.		

## Section 2. Composition - Information on Ingredients

Name of Ingredients	CAS No.	Conc.	EU Symbol	R Phrase
1) Copper Naphthenate	1338-02-9	37.5	Xn	R10, R22
2) Mineral Spirits	8030-30-6	62.3	F	R11
3) Butyl Alcohol	71-36-3	0.12	Xn	R10, R20

## Section 3. Hazards Identification - Summary of Primary Effects and Critical Hazards

Acute Health Effects	Adverse health effects are considered unlikely when the product is administered according to label directions. May be harmful or fatal if swallowed. Causes gastrointestinal irritation and nausea if swallowed. Inhalation of high concentrations of vapor, such as through deliberate inhalation, may cause dizziness, nausea, uncoordination, and headache. Irritating to the skin and eyes.
Chronic Health Effects	Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction. Repeated and prolonged overexposure to solvents has been linked to irreversible brain and nervous system damage.
Environmental Hazards	No known significant effects or critical hazards.

## Section 4. First Aid Measures - (by medical responders using "Universal Precautions")

Eye Contact	Flush eyes with plenty of water for 15 minutes, occasionally lifting upper and lower eyelids. (Check person for contact lenses and remove if present.) If redness or irritation persists have eyes examined by doctor immediately.
Skin Contact	Flush skin with plenty of soap and water for at least 15 minutes (remove all contaminated clothing and shoes). Get medical attention if symptoms persist.
Inhalation	No specific treatment, treat symptomatically. If breathing is difficult give oxygen, if respiratory arrest occurs provide artificial respiration and seek immediate medical assistance.
Ingestion	No specific treatment, treat symptomatically. Call medical doctor or poison control center immediately if large quantities are ingested. DO NOT induce vomiting.

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**Notes to Medical Doctor** Direct treatment at control of symptoms. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Anti-inflammatory/steroid treatment may be required at first evidence of upper airway or pulmonary edema. Administer oxygen as required.

If ingested, this product presents a significant aspiration/chemical pneumonitis hazard. Induction of emesis is not recommended. Administer an aqueous slurry of activated charcoal followed by a cathartic such as magnesium citrate or sorbitol. Gastric lavage may be performed if done soon after ingestion or in patients who are comatose or at risk of convulsing. Protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position. Monitor for cardiac function, respiratory distress, and arterial blood gases in severe exposure cases.

### **Section 5. Fire-Fighting Measures**

**Extinguishing Media and Instructions** Use DRY chemicals, CO2, alcohol foam or water spray.

**Special Exposure Hazards** None. Dispose of fire debris and contaminated fire fighting water in accordance with regulations.

**Special Fire Fighting Protective Equipment** Full fire-fighting attire and approved certified self-contained breathing apparatus worn only by qualified persons.

### **Section 6. Accidental Release Measures**

**Small Spill Guidelines** Absorb with an inert material and place in an appropriate waste disposal container.

**Large Spill Guidelines** Combustible material.  
Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Be careful that the product is not present at a concentration level above exposure limits. Check exposure limits on the MSDS and with local authorities. Dike spill area and do not allow product to reach sewage system and surface or ground water. Provide notification of any reportable spill to authorities. (See Section 12 for environmental risks and 13 for disposal information.) Absorb spill material with inert material (e.g., dry sand or earth), then place in a chemical waste container.

**Environmental Precautions** No special measures are typically indicated.

### **Section 7. Handling and Storage**

**Handling (ventilation and fire prevention)** Avoid contact with eyes, skin, and clothing. Avoid generating or breathing product aerosol. Wash after handling.

**Storage (conditions and limitations)** Store tightly closed in original container. Keep containers in a well ventilated, secure location.

### **Section 8. Exposure Controls and Personal Protection - (normal and intended use)**

#### **Exposure Guidelines**

Component	REG. Limit	OSHA (PEL)	ACGIH (TLV®)	Company Guideline
1) Mineral Spirits	TWA:	100 ppm		
2) Butyl Alcohol	TWA:	100 ppm	100 ppm	
	STEL: 50 ppm			
	CEIL:	50 ppm		

**Engineering Design and Control Measures** General ventilation is typically sufficient to keep airborne levels below established values. Provide eye wash and quick drench shower close to work station. Clean, appropriately launder, or dispose of all potentially contaminated work clothing, foot wear, and protective equipment after use.

#### **Protective Clothing**

**Eyes** Safety glasses, goggles or face shield where product aerosol or splash potential exists.

**Skin** Lab coat.

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<b>Hands</b>	Gloves, Chemical resistant. Nitrile.
<b>Respiratory</b>	Respirator selection must be based on anticipated exposure levels, product hazards, and the safe working limits of the selected respirator. A respirator is not needed under normal and intended conditions of product use.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Liquid.	<b>Odor</b>	Petroleum-like
<b>Molecular Weight</b>	Mixture.	<b>Color</b>	Green.
<b>Boiling Point</b>	Not available.	<b>pH</b>	Not applicable.
<b>Melting/Freezing Point</b>	Not available.		
<b>Density/Bulk Density</b>	0.86 (Water = 1)		
<b>Vapor Pressure</b>	<5 mm of Hg (@ 20°C) (Mineral Spirits).		
<b>Vapor Density</b>	3.9 (Air = 1)		
<b>Viscosity</b>	Not available.		
<b>Partition Coefficient</b>	Not available.		
<b>Solubility</b>	Kopertox: Insoluble in cold water, hot water.		
<b>Flash Point</b>	OPEN CUP: 45°C (113°F).		
<b>Autoignition Point</b>	282.22°C (540°F)		
<b>Explosion Limits</b>	LOWER: 0.8% UPPER: 5%		
<b>Dust Explosivity</b>	Not applicable.		

**Section 10. Stability and Reactivity**

<b>Conditions to Avoid and Incompatibility</b>	Highly reactive with oxidizing agents, acids. Slightly reactive to reactive with alkalis.
<b>Decomposition Products</b>	These products are carbon oxides (CO, CO2).

**Section 11. Toxicological Information****Acute Effects**

Component	Test	Result	Route	Species
1) Copper Naphthenate	LD50	110 mg/kg	oral	Rat
	LD50	1897 mg/kg	oral	Mouse
	LD50	>2000 mg/kg	oral	Rat
	LD50	>2000 mg/kg	dermal	Rabbit
	LC50	>5.5 mg/l (1 hour(s))	inhalation	Rat
2) Mineral Spirits	LD50	>5000 mg/kg	oral	Rat
	LD50	>3000 mg/kg	dermal	Rabbit
3) Butyl Alcohol	LD50	790 mg/kg	oral	Rat
	LD50	1970 mg/kg	dermal	Rabbit
	LC50	8000 (4 hour(s))	inhalation	Rat

**Eye Contact** Irritating to the eyes.

**Skin Contact** Irritating to the skin.

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<b>Inhalation</b>	Severe overexposure to high concentrations of vapor may cause respiratory irritation, euphoria, excitation, headache, nausea, vomiting, abdominal pain, loss of appetite, fatigue, uncoordination, dizziness, drowsiness, disorientation, difficulty in breathing, convulsions, and can in some instances be fatal.
<b>Ingestion</b>	May be harmful or fatal if swallowed. Symptoms include a burning sensation of the mouth and esophagus, nausea, vomiting, dizziness, uncoordination, CNS effects, and unconsciousness. Ingestion of this product creates a danger of aspiration into the lungs during vomiting. Aspiration can result in severe lung damage or death.

**Chronic Effects**

<b>Target Organs</b>	Potential organ systems effected are: Lungs, Skin, Thorax, Respiratory system, central nervous system, eyes, and possibly blood, liver, or kidneys.
<b>Adverse Effects Statements</b>	Adverse health effects are considered unlikely when the product is administered according to label directions and are associated with chronic high level exposures. Chronic effects may include chronic lung damage resulting from aspiration into the lungs. Repeated and prolonged overexposure to solvents may result in nervous system damage.
<b>Sensitization</b>	No evidence.
<b>Carcinogenic Effects</b>	Not classified as a carcinogen by OSHA, IARC, or NTP.
<b>Mutagenic Effects</b>	No known mutagenic effects.
<b>Teratogenic Effects</b>	No known human teratogenic effect
<b>Reproductive Effects</b>	No evidence of human reproductive effects.
<b>Other Effects</b>	None.

**Section 12. Ecological Information**

**Environmental Fate** Not available.

**Environmental Hazards** No known significant effects or critical hazards.

**Ecotoxicity**

Component	Species	Period	Result
1) Copper Naphthenate	Algae	72 hour(s)	<2 ppm

**Other** Not available.

**Section 13. Disposal Considerations**

**Waste Handling and Disposal** Avoid disposal, make attempts to use product completely in accordance with intended use. Incinerate unwanted products and waste materials.

*Note: The waste generator must be informed of and follow all applicable rules and regulations for the handling and disposal of waste.*

**Section 14. Transport Information**

**Proper Shipping Name, Primary Class, UNNA Number, Packaging Group** Medicines, flammable, liquid, n.o.s. (mineral spirits), 3, NA1993, III  
(Note: See applicable regulations, such as 49 CFR 173.150, for exceptions to packaging requirements)

**ADR/RID Classification (Road and Rail Transport)** ADR CLASS: Flammable liquid D. Non-toxic and non-corrosive liquid with a flash point between 21°C (70°F) and 100°C (212°F).

**ADNR Classification (Inland Waterways)** ADNR CLASS: Flammable liquid D. Non-toxic and non-corrosive liquid with a flash point between 21°C (70°F) and 100°C (212°F).

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IMO/IMDG Class (Maritime Transport)	IMDG Class 3: Flammable liquid.		
ICAO/IATA (Air Transport)	IATA Class 3: Flammable liquid.		
CEFIC Tremcard	Not available.	HI Kemler	Not available.
U.S.A. DOT Class	DOT CLASS: Combustible liquid with a flash point greater than 37.8°C (100°F).	<div><div><div>NFPA</div><div>Health</div><div>1</div></div><div><div>2</div><div>Flammability</div></div><div><div>0</div><div>Reactivity</div></div><div><div>0</div><div>Specific hazard</div></div></div>	
RQ	Butyl Alcohol (2270 kg, 4994 lbs)		
Packaging Instructions	Not available.		

### Section 15. Regulatory Information and Warning Labels

(R) Risk Phrases	R10- Flammable. R22- Harmful if ingested. R52- Harmful to aquatic organisms.	10- Flammable. 22- Harmful if ingested.
(S) Safety Phrases	S40- To clean the floor and all objects contaminated by this material, use water. S43- In case of fire, refer to the appropriate section in the Material Safety Data Sheet for this product. S46-If swallowed, seek medical advice immediately and show the container or the label.	

*NOTE: This product has been classified in accordance with applicable country-specific regulations.*

### Section 16. Other Key Information

Other Considerations	See product label and package insert for additional information.
22 June 2004	Responsible for MSDS: FDAH Environmental, Health, and Safety Department
Fort Dodge Animal Health -- A Division of Wyeth Corporation	
<u>Notice to Reader</u> <i>* This symbol indicates information which has changed from the previous MSDS.</i>  <i>The information provided in this MSDS is based on current knowledge, however, this does not constitute a warranty by the Company for that information. The product user is responsible for the appropriate and intended handling, use, and disposal of this product in accordance with label or package precautions and this information. All materials may present unknown hazards and should be used with caution.</i>	