

# SAFETY DATA SHEET



Revision date: 06-Oct-2013

Version: 2.0

Page 1 of 10

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

### Product Identifier

**Material Name:** Kopertox

**Trade Name:** KOPERTOX  
**Chemical Family:** Mixture

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

**Intended Use:** Veterinary product  
**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:** Green Liquid

### Classification of the Substance or Mixture

#### GHS - Classification

Aspiration Toxicity: Category 1  
Germ Cell Mutagenicity: Category 1B  
Carcinogenicity: Category 1B  
Acute aquatic toxicity: Category 1  
Chronic aquatic toxicity: Category 1  
Flammable liquids- Category 3

#### EU Classification:

EU Indication of danger: Carcinogenic: Category 2  
Mutagenic: Category 2  
N - Dangerous for the environment

EU Symbol: T, N

EU Risk Phrases:

R10 - Flammable.  
R22 - Harmful if swallowed.  
R45 - May cause cancer.  
R46 - May cause heritable genetic damage.  
R65 - Also harmful: may cause lung damage if swallowed  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SAFETY DATA SHEET

Material Name: Kopertox  
Revision date: 06-Oct-2013

Page 2 of 10  
Version: 2.0

### 2. HAZARDS IDENTIFICATION

#### Label Elements

**Signal Word:** Danger  
**Hazard Statements:** H226 - Flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H340 - May cause genetic defects  
H350 - May cause cancer  
H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements:** P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/Bond container and receiving equipment  
P241 - Use explosion-proof electrical/ventilating/lighting/equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+ P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician  
P331 - Do NOT induce vomiting  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P308 + P313 - IF exposed or concerned: Get medical attention/advice  
P370 + P378 - In case of fire: Use dry chemical, CO2, foam for extinction  
P391 - Collect spillage  
P403 + P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container in accordance with all local and national regulations



#### Other Hazards

**Short Term:** Vapors may cause drowsiness and dizziness.  
**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

## SAFETY DATA SHEET

Material Name: Kopertox  
Revision date: 06-Oct-2013

Page 3 of 10  
Version: 2.0

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
COPPER NAPHTHENATE	1338-02-9	215-657-0	R10 Xn; R22 N; R50-53	Acute Tox. 4 (H302) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Flam. Liq. 3 (H226)	37.5
NAPHTHA	8030-30-6	232-443-2	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65	Muta. 1B (H340) Carc. 1B (H350) Aspiration 1 (H304)	62.3
N-Butyl alcohol	71-36-3	200-751-6	R10 Xn; R22 Xi; R37/38-41 R67	Acute Tox. 4 (H302) STOT SE 3 (H335) STOT SE 3 (H336) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Eye Dam. 1 (H318)	0.12

**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:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**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:** For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

**Medical Conditions:** None known

**Aggravated by Exposure:**

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

**Notes to Physician:** This product contains petroleum distillate, aspiration into the lungs can result in pulmonary edema.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO2, extinguishing powder, foam, or water.

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

## SAFETY DATA SHEET

Material Name: Kopertox  
Revision date: 06-Oct-2013

Page 4 of 10  
Version: 2.0

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

**Fire / Explosion Hazards:** Flammable liquid and vapor

### Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure. Eliminate all sources of ignition and ventilate area using explosion-proof equipment.

### 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. Absorb spills with non-combustible absorbent material and transfer into a labeled container for disposal.

**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

Keep away from heat, sparks, flame and all other sources of ignition. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Refer to Section 12 - Ecological Information, for information on potential effects on the environment. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions:** Store as directed by product packaging. Keep away from heat and sources of ignition. Store away from direct sunlight.

**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 NAPHTHENATE

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

#### NAPHTHA

Czech Republic OEL - TWA	400 mg/m <sup>3</sup>
Estonia OEL - TWA	1 mg/m <sup>3</sup>
Latvia OEL - TWA	100 mg/m <sup>3</sup>
	10 mg/m <sup>3</sup>
Vietnam OEL - TWAs	1570 mg/m <sup>3</sup>

## SAFETY DATA SHEET

Material Name: Kopertox  
Revision date: 06-Oct-2013

Page 5 of 10  
Version: 2.0

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>OSHA - Final PELS - TWAs:</b>	100 ppm
	400 mg/m <sup>3</sup>
<b>Poland OEL - TWA</b>	500 mg/m <sup>3</sup>
<b>Portugal OEL - TWA</b>	400 ppm
<b>Romania OEL - TWA</b>	100 mg/m <sup>3</sup>
<b>Switzerland OEL -TWAs</b>	500 ppm
	2000 mg/m <sup>3</sup>
<b>N-Butyl alcohol</b>	
<b>ACGIH Threshold Limit Value (TWA)</b>	20 ppm
<b>Australia PEAK</b>	50 ppm
	152 mg/m <sup>3</sup>
<b>Austria OEL - MAKs</b>	50 ppm
	150 mg/m <sup>3</sup>
<b>Belgium OEL - TWA</b>	20 ppm
	62 mg/m <sup>3</sup>
<b>Bulgaria OEL - TWA</b>	100.0 mg/m <sup>3</sup>
<b>Czech Republic OEL - TWA</b>	300 mg/m <sup>3</sup>
<b>Estonia OEL - TWA</b>	15 ppm
	45 mg/m <sup>3</sup>
<b>Finland OEL - TWA</b>	50 ppm
	150 mg/m <sup>3</sup>
<b>Germany - TRGS 900 - TWAs</b>	100 ppm
	310 mg/m <sup>3</sup>
<b>Germany (DFG) - MAK</b>	100 ppm
	310 mg/m <sup>3</sup>
<b>Germany - Biological Exposure Limit:</b>	10 mg/g
	2 mg/g
<b>Greece OEL - TWA</b>	100 ppm
	300 mg/m <sup>3</sup>
<b>Hungary OEL - TWA</b>	45 mg/m <sup>3</sup>
<b>Ireland OEL - TWAs</b>	20 ppm
<b>Japan - OELs - Ceilings</b>	50 ppm
	150 mg/m <sup>3</sup>
<b>Latvia OEL - TWA</b>	10 mg/m <sup>3</sup>
<b>Lithuania OEL - TWA</b>	15 ppm
	45 mg/m <sup>3</sup>
<b>Vietnam O EL - TWAs</b>	150 mg/m <sup>3</sup>
<b>OSHA - Final PELS - TWAs:</b>	100 ppm
	300 mg/m <sup>3</sup>
<b>Poland OEL - TWA</b>	50 mg/m <sup>3</sup>
<b>Portugal OEL - TWA</b>	20 ppm
<b>Slovakia OEL - TWA</b>	100 ppm
	310 mg/m <sup>3</sup>
<b>Slovak Republic - Biological Exposure Limit:</b>	2 mg/g creatinine
	10 mg/g creatinine
<b>Slovenia OEL - TWA</b>	100 ppm
	310 mg/m <sup>3</sup>
<b>Sweden OEL - TWAs</b>	15 ppm
	45 mg/m <sup>3</sup>
<b>Switzerland OEL -TWAs</b>	50 ppm
	150 mg/m <sup>3</sup>

Exposure Controls

## SAFETY DATA SHEET

Material Name: Kopertox  
Revision date: 06-Oct-2013

Page 6 of 10  
Version: 2.0

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering Controls:</b>	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.
<b>Personal Protective Equipment:</b>	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
<b>Hands:</b>	Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.
<b>Eyes:</b>	Wear safety glasses or goggles if eye contact is possible.
<b>Skin:</b>	Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.
<b>Respiratory protection:</b>	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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Color:</b>	Green
<b>Odor:</b>	No data available.	<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>	No data available		
<b>pH:</b>	No data available.		
<b>Melting/Freezing Point (°C):</b>	No data available		
<b>Boiling Point (°C):</b>	No data available.		
<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>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>	45		
<b>Upper Explosive Limits (Liquid) (% by Vol.):</b>	5		
<b>Lower Explosive Limits (Liquid) (% by Vol.):</b>	0.8		

### 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>	None
<b>Conditions to Avoid:</b>	Keep away from heat, spark, flames and all other sources of ignition.
<b>Incompatible Materials:</b>	As a precautionary measure, keep away from strong oxidizers
<b>Hazardous Decomposition Products:</b>	No data available

Material Name: Kopertox  
Revision date: 06-Oct-2013

Page 7 of 10  
Version: 2.0

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

**General Information:** The information included in this section describes the potential hazards of the individual ingredients.

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

#### NAPHTHA

Rat Oral LD50 > 5000 mg/kg

#### COPPER NAPHTHENATE

Rat Oral LD50 2000 mg/kg

#### N-Butyl alcohol

Rat Oral LD50 790 mg/kg

**Acute Toxicity Comments:** A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

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

#### NAPHTHA

Eye Irritation Rabbit Mild  
Skin Irritation Rabbit Mild

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

## 12. ECOLOGICAL INFORMATION

**Environmental Overview:** The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided. See aquatic toxicity data for individual components below:

### Toxicity:

#### Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

#### COPPER NAPHTHENATE

<i>Lepomis macrochirus</i> (Bluegill Sunfish)	LC50	96 Hours	3.1 mg/L
<i>Oncorhynchus mykiss</i> (Rainbow Trout)	LC50	96 Hours	1.1 mg/L
<i>Daphnia Magna</i> (Water Flea)	EC50	48 Hours	0.34 mg/L

**Persistence and Degradability:** No data available

**Bio-accumulative Potential:** No data available

**Mobility in Soil:** No data available

## SAFETY DATA SHEET

Material Name: Kopertox  
Revision date: 06-Oct-2013

Page 8 of 10  
Version: 2.0

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:** 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.

**N-Butyl alcohol**  
RCRA - U Series Wastes Listed

### 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 1993  
**UN proper shipping name:** Flammable Liquid, n.o.s. (Naphtha, Copper Naphthenate) RQ (n-Butyl Alcohol)  
**Transport hazard class(es):** 3  
**Packing group:** III  
**Flash Point (°C):** 45 (open cup)

For small quantities, limited to inner packaging less than or equal to 5.0L (1.3 gal) and outer packaging less than or equal to 30 kg (66 lb.) gross weight, the following may be used: If your commodity meets the definition of a limited quantity and is packaged for retail sale, it may be considered a consumer commodity and excepted from additional requirements as applicable.

#### IATA / ICAO

**IATA UN / ID No:** ID 8000  
**IATA Proper shipping name:** Consumer Commodity  
**IATA Hazard Class:** 9

#### IMDG IMDG

**IMDG UN / ID No:** UN 1993  
**IMDG Proper shipping name:** Flammable Liquid, n.o.s. (Naphtha, Copper Naphthenate) Ltd. Qty.  
**IMDG Hazard Class:** 3  
**IMDG Packing Group:** III  
**Flash Point (°C):** 45 (open cup)

#### ADR/RID

**ADR / RID UN / ID No:** UN 1993  
**ADR/RID Proper shipping name:** Flammable Liquid, n.o.s. (Naphtha, Copper Naphthenate) Ltd. Qty.  
**ADR / RID Hazard Class:** 3  
**ADR / RID Packing Group:** III

#### DOT

**DOT Proper shipping name:** Consumer Commodity  
**DOT Hazard Class:** ORM-D

### 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**  
**Contains:** NAPHTHA, COPPER NAPHTHENATE



# SAFETY DATA SHEET

Material Name: Kopertox  
Revision date: 06-Oct-2013

Page 9 of 10  
Version: 2.0

## 15. REGULATORY INFORMATION

### Canada - WHMIS: Classifications

#### WHMIS hazard class:

Class D, Division 2, Subdivision A

B2 flammable liquids



### COPPER NAPHTHENATE

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	215-657-0

### NAPHTHA

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex XVII - Restrictions on Certain Dangerous Substances:	Use restricted. See item 28.
REACH - Carcinogens Category 2:	Present
REACH - Mutagens Category 2:	Present
EU EINECS/ELINCS List	232-443-2

### N-Butyl alcohol

CERCLA/SARA 313 Emission reporting	1.0 %
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	5000 lb 2270 kg
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	200-751-6

## 16. OTHER INFORMATION

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

## SAFETY DATA SHEET

**Material Name: Kopertox**  
**Revision date: 06-Oct-2013**

**Page 10 of 10**  
**Version: 2.0**

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Flammable liquids-Cat.3; H226 - Flammable liquid and vapor  
Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed  
Skin corrosion/irritation-Cat.2; H315 - Causes skin irritation  
Serious eye damage/eye irritation-Cat.1; H318 - Causes serious eye damage  
Specific target organ toxicity, single exposure; Respiratory tract irritation-Cat.3; H335 - May cause respiratory irritation  
Specific target organ toxicity, single exposure; Narcotic effects-Cat.3; H336 - May cause drowsiness and dizziness  
Aspiration hazard-Cat.1; H304 - May be fatal if swallowed and enters airways  
Germ cell mutagenicity-Cat.1B; H340 - May cause genetic defects  
Carcinogenicity-Cat.1B; H350 - May cause cancer  
Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life  
Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects

Carcinogenic: Category 2  
Mutagenic: Category 2  
N - Dangerous for the environment  
T - Toxic  
Xi - Irritant  
Xn - Harmful

R10 - Flammable.  
R22 - Harmful if swallowed.  
R41 - Risk of serious damage to eyes.  
R45 - May cause cancer.  
R46 - May cause heritable genetic damage.  
R65 - Harmful: may cause lung damage if swallowed.  
R67 - Vapors may cause drowsiness and dizziness.  
R37/38 - Irritating to respiratory system and skin.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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 4 - First Aid Measures. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 15 - Regulatory Information.

**Prepared by:** Toxicology and Hazard Communication  
Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Material 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**