# This SDS packet was issued with item:

078417634

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078385005



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** 

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

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

Veterinary product Intended Use: 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: Emergency telephone number:** CHEMTREC (24 hours): 1-800-424-9300

**Contact E-Mail:** VMIPSrecords@zoetis.com 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.

Material Name: Kopertox
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## 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:
Australian Hazard Classification
(NOHSC):

Vapors may cause drowsiness and dizziness. 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** 

Material Name: Kopertox
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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

For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Exposure:

Identification and/or Section 11 - Toxicological Information.

Aggravated by Exposure:

Medical Conditions None known

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

Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460

**Material Name: Kopertox** Page 4 of 10 Revision date: 06-Oct-2013 Version: 2.0

**Hazardous Combustion** 

Formation of toxic gases is possible during heating or fire.

Products:

Flammable liquid and vapor Fire / Explosion Hazards:

**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

Contain the source of the spill if it is safe to do so. Absorb spills with non-combustible Measures for Cleaning /

Collecting: 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.

No data available Specific end use(s):

## 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)  $1 \text{ mg/m}^3$ **Finland OEL - TWA** 1 mg/m<sup>3</sup>

**NAPHTHA** 

PZ01173

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

1570 mg/m<sup>3</sup> Vietnam O EL - TWAs

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA - Final PELS - TWAs: 100 ppm 400 mg/m<sup>3</sup>

Poland OEL - TWA500 mg/m³Portugal OEL - TWA400 ppmRomania OEL - TWA100 mg/m³Switzerland OEL -TWAs500 ppm

2000 mg/m<sup>3</sup>

N-Butyl alcohol

ACGIH Threshold Limit Value (TWA) 20 ppm Australia PEAK 50 ppm

Austria OEL - MAKs 50 ppm 152 mg/m³

Austria OEL - MAKs 50 ppm

150 mg/m<sup>3</sup> **Belgium OEL - TWA**20 ppm

Belgium OEL - TWA 20 ppm 62 mg/m³ 100 0 mg/m²

Bulgaria OEL - TWA100.0 mg/m³Czech Republic OEL - TWA300 mg/m³Estonia OEL - TWA15 ppm

Finland OEL - TWA 50 ppm 150 mg/m³

Germany - TRGS 900 - TWAs 100 ppm 310 mg/m<sup>3</sup>

 Germany (DFG) - MAK
 100 ppm

 310 mg/m³
 310 mg/g

2 mg/g

Greece OEL - TWA 100 ppm
300 mg/m³

 Hungary OEL - TWA
 45 mg/m³

 Ireland OEL - TWAs
 20 ppm

 Japan - OELs - Ceilings
 50 ppm

 150 mg/m³

 Latvia OEL - TWA
 10 mg/m³

 Lithuania OEL - TWA
 15 ppm

 45 mg/m³
 45 mg/m³

 Vietnam O EL - TWAs
 150 mg/m³

 OSHA - Final PELS - TWAs:
 100 ppm

 300 mg/m³
 300 mg/m³

Poland OEL - TWA 50 mg/m³
Portugal OEL - TWA 20 ppm
Slovakia OEL - TWA 100 ppm
310 mg/m³

Slovak Republic - Biological Exposure Limit: 2 mg/g creatinine 10 mg/g creatinine

Slovenia OEL - TWA 100 ppm 310 mg/m<sup>3</sup>

Sweden OEL - TWAs 15 ppm

 Switzerland OEL -TWAs
 45 mg/m³

 50 ppm
 150 mg/m³

### **Exposure Controls**

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

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

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

**Eyes:** Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Green

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
PH:
No data available
No data available.
Partition Coefficient: (Method, pH, Endpoint, Value)

No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Auto gnition Temperature (Solid) (°C):

No data available
Flammability (Solids):

No data available

Flash Point (Liquid) (°C): 45
Upper Explosive Limits (Liquid) (% by Vol.): 5
Lower Explosive Limits (Liquid) (% by Vol.): 0.8

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: None

Conditions to Avoid: Keep away from heat, spark, flames and all other sources of ignition.

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No

Products:

PZ01173

No data available

Material Name: Kopertox Page 7 of 10
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# 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** 

Lepomis macrochirus (Bluegill Sunfish) LC50 96 Hours 3.1 mg/L Oncorhynchus mykiss (Rainbow Trout) LC50 96 Hours 1.1 mg/L

Daphnia Magna (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

Material Name: Kopertox
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Version: 2.0

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## 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: |||

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: |||

Flash Point (°C): 45 (open cup)

ADR/RID

ADR / RID UN / ID No: UN 1993

ADR/RID Proper shipping Flammable Liquid, n.o.s. (Naphtha, Copper Naphthenate) Ltd. Qty.

name:

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

PZ01173

Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460

Material Name: Kopertox Page 9 of 10
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# 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

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Eisted

Not

#### **NAPHTHA**

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Not Listed

Not Listed

Present

Present

**REACH - Annex XVII - Restrictions on Certain**Use restricted. See item 28.

**Dangerous Substances:** 

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
CERCLA/SARA Hazardous Substances
5000 lb
and their Reportable Quantities:
2270 kg
California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
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

Material Name: Kopertox Page 10 of 10
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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** 



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** 

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

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

Veterinary product Intended Use: 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: Emergency telephone number:** CHEMTREC (24 hours): 1-800-424-9300

**Contact E-Mail:** VMIPSrecords@zoetis.com 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.

Material Name: Kopertox

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## 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:
Australian Hazard Classification
(NOHSC):

Vapors may cause drowsiness and dizziness. 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**

Material Name: Kopertox
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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

For information on potential signs and symptoms of exposure, See Section 2 - Hazards

Exposure:

Identification and/or Section 11 - Toxicological Information.

Aggravated by Exposure:

Medical Conditions None known

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

Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460

**Material Name: Kopertox** Page 4 of 10 Revision date: 06-Oct-2013 Version: 2.0

**Hazardous Combustion** 

Formation of toxic gases is possible during heating or fire.

Products:

Flammable liquid and vapor Fire / Explosion Hazards:

**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

Contain the source of the spill if it is safe to do so. Absorb spills with non-combustible Measures for Cleaning /

Collecting: 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.

No data available Specific end use(s):

## 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)  $1 \text{ mg/m}^3$ **Finland OEL - TWA** 1 mg/m<sup>3</sup>

**NAPHTHA** 

PZ01173

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

1570 mg/m<sup>3</sup> Vietnam O EL - TWAs

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA - Final PELS - TWAs: 100 ppm 400 mg/m<sup>3</sup>

Poland OEL - TWA500 mg/m³Portugal OEL - TWA400 ppmRomania OEL - TWA100 mg/m³Switzerland OEL -TWAs500 ppm

2000 mg/m<sup>3</sup>

N-Butyl alcohol

ACGIH Threshold Limit Value (TWA) 20 ppm Australia PEAK 50 ppm

Austria OEL - MAKs 50 ppm 152 mg/m³

Austria OEL - MAKs 50 ppm

150 mg/m<sup>3</sup> **Belgium OEL - TWA**20 ppm

Belgium OEL - TWA 20 ppm 62 mg/m³ 100 0 mg/m²

Bulgaria OEL - TWA100.0 mg/m³Czech Republic OEL - TWA300 mg/m³Estonia OEL - TWA15 ppm

Finland OEL - TWA 50 ppm 150 mg/m³

Germany - TRGS 900 - TWAs 100 ppm 310 mg/m<sup>3</sup>

 Germany (DFG) - MAK
 100 ppm

 310 mg/m³
 310 mg/g

2 mg/g

Greece OEL - TWA 100 ppm
300 mg/m³

 Hungary OEL - TWA
 45 mg/m³

 Ireland OEL - TWAs
 20 ppm

 Japan - OELs - Ceilings
 50 ppm

 150 mg/m³

 Latvia OEL - TWA
 10 mg/m³

 Lithuania OEL - TWA
 15 ppm

 45 mg/m³
 45 mg/m³

 Vietnam O EL - TWAs
 150 mg/m³

 OSHA - Final PELS - TWAs:
 100 ppm

 300 mg/m³
 300 mg/m³

Poland OEL - TWA 50 mg/m³
Portugal OEL - TWA 20 ppm
Slovakia OEL - TWA 100 ppm
310 mg/m³

Slovak Republic - Biological Exposure Limit: 2 mg/g creatinine 10 mg/g creatinine

Slovenia OEL - TWA 100 ppm 310 mg/m<sup>3</sup>

Sweden OEL - TWAs 15 ppm

 Switzerland OEL -TWAs
 45 mg/m³

 50 ppm
 150 mg/m³

### **Exposure Controls**

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

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

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

**Eyes:** Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Green

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
PH:
No data available
No data available.
Partition Coefficient: (Method, pH, Endpoint, Value)

No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Auto gnition Temperature (Solid) (°C):

No data available
Flammability (Solids):

No data available

Flash Point (Liquid) (°C): 45
Upper Explosive Limits (Liquid) (% by Vol.): 5
Lower Explosive Limits (Liquid) (% by Vol.): 0.8

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: None

Conditions to Avoid: Keep away from heat, spark, flames and all other sources of ignition.

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No

Products:

PZ01173

No data available

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# 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** 

Lepomis macrochirus (Bluegill Sunfish) LC50 96 Hours 3.1 mg/L Oncorhynchus mykiss (Rainbow Trout) LC50 96 Hours 1.1 mg/L

Daphnia Magna (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

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## 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: |||

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: |||

Flash Point (°C): 45 (open cup)

ADR/RID

ADR / RID UN / ID No: UN 1993

ADR/RID Proper shipping Flammable Liquid, n.o.s. (Naphtha, Copper Naphthenate) Ltd. Qty.

name:

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

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# 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

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Eisted

Not

#### **NAPHTHA**

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Not Listed

Present

Present

**REACH - Annex XVII - Restrictions on Certain**Use restricted. See item 28.

**Dangerous Substances:** 

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
CERCLA/SARA Hazardous Substances
5000 lb
and their Reportable Quantities:
2270 kg
California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
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

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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**