

SAFETY DATA SHEET



Revision date: 14-Sep-2015

Version: 2.0

Page 1 of 12

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

Product Identifier

Material Name: New Ema-Sol

Trade Name: Not established
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 and Drug 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: Blue green liquid

Classification of the Substance or Mixture

GHS - Classification

Acute Oral Toxicity: Category 3
Acute Toxicity - Dusts and Mists: Category 2
Skin Corrosion/Irritation: Category 1B
Serious Eye Damage/Eye Irritation: Category 1
Respiratory Sensitization: Category 1
Skin Sensitization: Category 1
Germ Cell Mutagenicity: Category 1B
Reproductive Toxicity: Category 1B
Carcinogenicity: Category 1B
Specific target organ systemic toxicity (single exposure): Category 3
Specific target organ systemic toxicity (repeated exposure): Category 1
Acute aquatic toxicity: Category 1
Chronic aquatic toxicity: Category 1

Label Elements

Signal Word: Danger

ALPHARMA - NEW EMA-SOL

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 2 of 12
Version: 2.0

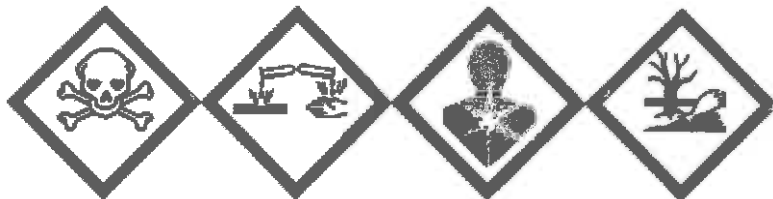
2. HAZARDS IDENTIFICATION

Hazard Statements:

- H330 - Fatal if inhaled
- H301 - Toxic if swallowed
- H314 - Causes severe skin burns and eye damage
- H317 - May cause an allergic skin reaction
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 - May cause respiratory irritation
- H340 - May cause genetic defects
- H350 - May cause cancer
- H360 - May damage fertility or the unborn child
- H372 - Causes damage to organs through prolonged or repeated exposure: cardiovascular, blood, brain.
- 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
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P284 - Wear respiratory protection
- P264 - Wash hands thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P272 - Contaminated work clothing must not be allowed out of the workplace
- P273 - Avoid release to the environment
- P308 + P313 - IF exposed or concerned: Get medical attention/advice
- P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- 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
- 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 POISON CENTRE or doctor/physician
- P391 - Collect spillage
- P405 - Store locked up
- P501 - Dispose of contents/container in accordance with all local and national regulations



Other Hazards
Australian Hazard Classification
(NOHSC):

No data available
Dangerous Goods. Hazardous Substance.

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.

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 3 of 12
Version: 2.0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Cupric Sulfate	7758-98-7	231-847-6	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Eye Irrit. 2 (H319)	60-100
HYDROCHLORIC ACID	7647-01-0	231-595-7	Skin Corr. 1B (H314) STOT SE 3 (H335)	5-10
POTASSIUM DICHROMATE	7778-50-9	231-906-6	Acute Tox. 3 (H301) STOT RE 1 (H372) Muta. 1B (H340) Repr. 1B (H360FD) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Resp. Sens. 1 (H334) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Ox. Sol. 2 (H272) Carc. 1B (H350) Acute Tox. 2 (H330)	5-10
Cobalt sulfate	10124-43-3	233-334-2	Acute Tox. 4 (H302) Muta. 2 (H341) Repr. 1B (H360F) Skin Sens. 1 (H317) Resp. Sens. 1 (H334) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Carc. 1B (H350i)	0.1-1
Manganese sulfate	7785-87-7	232-089-9	STOT RE 2 (H373) Aquatic Chronic 2 (H411)	0.1-1

Additional Information:

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 4 of 12
Version: 2.0

For the full text of the 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:** Rinse immediately with plenty of water for at least 15 minutes Get medical attention immediately. Remove and wash contaminated clothing before reuse.
- 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:** For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.
- 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 CO₂, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

- Hazardous Combustion Products:** Toxic or corrosive gases are expected in fires involving this mixture.
- Fire / Explosion Hazards:** Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

Collect contaminated fire extinguishing water separately. this must not be discharged into drains. 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

Highly Toxic Material! Personnel must wear appropriate protective equipment (see Section 8). Prevent exposure by any route. Ensure adequate ventilation.

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 spill if it is safe to do so. Collect spill with absorbent material. Clean spill area 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.

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 5 of 12
Version: 2.0

7. HANDLING AND STORAGE

Precautions for Safe Handling

Highly Toxic! Prevent inhalation, contact with eyes, skin and clothing. Use with adequate ventilation. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. 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. Store in a dry, well-ventilated area. Keep away from heat and sources of ignition.

Incompatible Materials: Strong oxidising agents. Bases. Alkali metals. Alkaline earth metals.

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.

Cupric Sulfate

ACGIH Threshold Limit Value (TWA) 1 mg/m³
Finland OEL - TWA 1 mg/m³

HYDROCHLORIC ACID

ACGIH Ceiling Threshold Limit:
Australia PEAK 5 ppm
7.5 mg/m³
Austria OEL - MAKs 5 ppm
8 mg/m³
Belgium OEL - TWA 5 ppm
8 mg/m³
Bulgaria OEL - TWA 5 ppm
8.0 mg/m³
Cyprus OEL - TWA 5 ppm
8 mg/m³
Czech Republic OEL - TWA 8 mg/m³
Estonia OEL - TWA 5 ppm
8 mg/m³
Germany - TRGS 900 - TWAs 2 ppm
3 mg/m³
Germany (DFG) - MAK 2 ppm
3.0 mg/m³
Greece OEL - TWA 5 ppm
7 mg/m³
Hungary OEL - TWA 8 mg/m³
Ireland OEL - TWAs 5 ppm
8 mg/m³
Italy OEL - TWA 5 ppm
8 mg/m³
Japan - OELs - Cellings 5 ppm
7.5 mg/m³
Latvia OEL - TWA 5 ppm
8 mg/m³

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 6 of 12
Version: 2.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Lithuania OEL - TWA	5 ppm 8 mg/m ³
Luxembourg OEL - TWA	5 ppm 8 mg/m ³
Malta OEL - TWA	5 ppm 8 mg/m ³
Netherlands OEL - TWA	8 mg/m ³
Vietnam OEL - TWAs	5 mg/m ³
Poland OEL - TWA	5 mg/m ³
Portugal OEL - TWA	5 ppm 8 mg/m ³
Romania OEL - TWA	5 ppm 8 mg/m ³
Slovakia OEL - TWA	5 ppm 8.0 mg/m ³
Slovenia OEL - TWA	5 ppm 8 mg/m ³
Spain OEL - TWA	5 ppm 7.6 mg/m ³
Switzerland OEL - TWAs	2 ppm 3.0 mg/m ³

POTASSIUM DICHROMATE

ACGIH Threshold Limit Value (TWA)	0.05 mg/m ³
ACGIH - Biological Exposure Limit:	25 µg/L 10 µg/L
Finland OEL - TWA	0.05 mg/m ³
Spain OEL - TWA	0.05 mg/m ³
Sweden OEL - TWAs	0.005 mg/m ³

Cobalt sulfate

ACGIH Threshold Limit Value (TWA)	0.02 mg/m ³
ACGIH - Biological Exposure Limit:	15 µg/L 1 µg/L
Finland OEL - TWA	0.02 mg/m ³
Spain OEL - TWA	0.02 mg/m ³

Manganese sulfate

ACGIH Threshold Limit Value (TWA)	0.02 mg/m ³ 0.1 mg/m ³
Finland OEL - TWA	0.2 mg/m ³

Exposure Controls

Engineering Controls:	Engineering controls should be used as the primary means to control exposures. 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.
Eyes:	Wear safety goggles as minimum protection (face shield recommended if splashing is possible).
Skin:	Wear impervious protective clothing to prevent skin contact.

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 7 of 12
Version: 2.0

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure. 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:	Blue green
Odor:	Slight	Odor Threshold:	No data available.
Molecular Formula:	Mixture	Molecular Weight:	Mixture

Solvent Solubility:	No data available
Water Solubility:	No data available
pH:	No data available.
Melting/Freezing Point (°C):	No data available
Boiling Point (°C):	98
Partition Coefficient: (Method, pH, Endpoint, Value)	No data available
Decomposition Temperature (°C):	No data available.

Evaporation Rate (Gram/s):	No data available
Vapor Pressure (kPa):	No data available
Vapor Density (g/ml):	No data available
Relative Density:	No data available
Specific Gravity:	1.14
Viscosity:	No data available

Flammability:

Autoignition Temperature (Solid) (°C):	No data available
Flammability (Solids):	No data available
Flash Point (Liquid) (°C):	No data available
Upper Explosive Limits (Liquid) (% by Vol.):	No data available
Lower Explosive Limits (Liquid) (% by Vol.):	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use.
Possibility of Hazardous Reactions	
Oxidizing Properties:	No data available
Conditions to Avoid:	Keep away from excessive heat and flames.
Incompatible Materials:	Strong oxidising agents. Bases. Alkali metals. Alkaline earth metals.
Hazardous Decomposition Products:	oxides of sulfur , Chromium oxides, Copper oxides, Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: Toxicological properties of the formulation have not been investigated. The information in this section describes the potential hazards of the individual ingredients and the formulation.
Routes of exposure: eye contact , skin contact , inhalation

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 8 of 12
Version: 2.0

11. TOXICOLOGICAL INFORMATION

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

Cupric Sulfate

Rat Oral LD50 300 mg/kg

HYDROCHLORIC ACID

Rat Oral LD 50 238-277 mg/kg

POTASSIUM DICHROMATE

Rat Oral LD50 25 mg/kg

Manganese sulfate

Rat Oral LD50 2150 mg/kg

Cobalt sulfate

Rat Oral LD50 424 mg/kg

Mouse Oral LD50 584mg/kg

Inhalation Acute Toxicity

May cause respiratory tract and mucous membrane irritation . Allergic reactions might occur based on effects of the individual components.

Irritation / Sensitization Comments:

May cause irreversible eye damage.

Skin Irritation / Sensitization

May cause skin burns/irreversible skin damage. May cause allergic reactions in susceptible individuals.

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Cobalt sulfate

2 Week(s) Rat Oral 10 mg/kg LOEL Heart

13 Week(s) Rat Inhalation 0.3 mg/m³ LOEL Respiratory system, Male reproductive system

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Cobalt sulfate

2 Year(s) Rat Inhalation 0.3 mg/m³ LOEL Tumors, Lungs

2 Year(s) Mouse Inhalation 0.3 mg/m³ LOEL Tumors, Lungs

Carcinogen Status:

See below

HYDROCHLORIC ACID

IARC:

Group 3 (Not Classifiable)

POTASSIUM DICHROMATE

IARC:

Group 1 (Carcinogenic to Humans)

Cobalt sulfate

IARC:

Group 2B (Possibly Carcinogenic to Humans)

NTP:

Reasonably Anticipated To Be A Human Carcinogen

Product Level Toxicity Data

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 9 of 12
Version: 2.0

11. TOXICOLOGICAL INFORMATION

Acute Toxicity Estimate (ATE),
oral 143 mg/kg
Acute Toxicity Estimate (ATE),
Inhalation (dust/mist) 0.5 mg/L

12. ECOLOGICAL INFORMATION

Environmental Overview: Very toxic to aquatic life with long lasting effects. Releases to the environment should be avoided.

Toxicity:

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

Cupric Sulfate

Oncorhynchus mykiss (Rainbow Trout) Fish LC50 96 Hours 0.1 mg/L
Daphnia magna (Water Flea) EC50 48 Hours 0.024 mg/L

POTASSIUM DICHROMATE

Fish (striped bass) LC50 96 Hours 75 mg/L
Daphnia magna (Water Flea) EC50 24 Hours 0.435 mg/L

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Should not be released into the environment. 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. Waste of 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).

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 2922
UN proper shipping name: Corrosive Liquid, toxic, n.o.s.
Technical Shipping Name: (Potassium dichromate, hydrogen chloride)
Transport hazard class(es): 8 (6.1)
Packing group: II

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 10 of 12
Version: 2.0

Environmental Hazard(s): Marine Pollutant (Cupric Sulfate)

Marine pollutant requirements apply only to quantities >5 Liters for liquids / >5 Kilograms for solids (per inner package) when shipped as per IMDG or ADR (effective year 2015 or greater) regulations. Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

U.S. DOT Reportable Quantity (RQ), 49 CFR 172.101 Appendix A:

Cupric Sulfate

**CERCLA/SARA Hazardous Substances
and their Reportable Quantities:** 10 lb
4.54 kg

HYDROCHLORIC ACID

**CERCLA/SARA Hazardous Substances
and their Reportable Quantities:** 5000 lb
2270 kg

POTASSIUM DICHROMATE

**CERCLA/SARA Hazardous Substances
and their Reportable Quantities:** 10 lb
4.54 kg

15. REGULATORY INFORMATION

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

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 1, Subdivision A

Class D, Division 2, Subdivision A

Class E

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



Cupric Sulfate

CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	10 lb 4.54 kg
California Proposition 65 Inventory - United States TSCA - Sect. 8(b)	Not Listed Present
Australia (AICS): Standard for the Uniform Scheduling for Drugs and Poisons:	Present Schedule 6
EU EINECS/ELINCS List	231-847-6

HYDROCHLORIC ACID

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 11 of 12
Version: 2.0

15. REGULATORY INFORMATION

CERCLA/SARA 313 Emission reporting	1.0 %
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	5000 lb
CERCLA/SARA - Section 302 Extremely Hazardous TPQs	2270 kg
CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs	500 lb
California Proposition 65	5000 lb
Inventory - United States TSCA - Sect. 8(b)	Not Listed
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Present
EU EINECS/ELINCS List	Schedule 5
	Schedule 6
	231-595-7

POTASSIUM DICHROMATE

CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	10 lb
California Proposition 65	4.54 kg
Inventory - United States TSCA - Sect. 8(b)	Not Listed
Australia (AICS):	Present
REACH - Annex XVII - Restrictions on Certain Dangerous Substances:	Present
	Use restricted. See item 28.
	Use restricted. See item 29.
	Use restricted. See item 30.
REACH - Carcinogens Category 2:	Present
REACH - Mutagens Category 2:	Present
REACH - Toxic to Reproduction Category 2:	Present
EU EINECS/ELINCS List	231-906-6

Cobalt sulfate

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	carcinogen initial date 5/20/05
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 - Toxic to Reproduction Category 2:	Present
EU EINECS/ELINCS List	233-334-2

Manganese sulfate

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	232-089-9

16. OTHER INFORMATION

Text of CLP/GHS Classification abbreviations mentioned in Section 3

SAFETY DATA SHEET

Material Name: New Ema-Sol
Revision date: 14-Sep-2015

Page 12 of 12
Version: 2.0

Oxidizing solids-Cat.2; H272 - May intensify fire; oxidizer
Acute toxicity, oral-Cat.3; H301 - Toxic if swallowed
Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed
Skin corrosion/irritation-Cat.1B; H314 - Causes severe skin burns and eye damage
Skin corrosion/irritation-Cat.2; H315 - Causes skin irritation
Sensitization, skin-Cat.1; H317 - May cause an allergic skin reaction
Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation
Acute toxicity, inhalation-Cat.2; H330 - Fatal if inhaled
Sensitization, respiratory-Cat.1; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
Specific target organ toxicity, single exposure; Respiratory tract irritation-Cat.3; H335 - May cause respiratory irritation
Germ cell mutagenicity-Cat.1B; H340 - May cause genetic defects
Germ cell mutagenicity-Cat.2; H341 - Suspected of causing genetic defects
Carcinogenicity-Cat.1B; H350 - May cause cancer by inhalation
H350 - May cause cancer
Reproductive toxicity-Cat.1B; H360FD - May damage fertility. May damage the unborn child.
H360F - May damage fertility
Specific target organ toxicity, repeated exposure-Cat.2; H372 - Causes damage to organs through prolonged or repeated exposure
Specific target organ toxicity, repeated exposure-Cat.1; H373 - May cause damage to organs through prolonged or repeated exposure
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
Hazardous to the aquatic environment, chronic toxicity-Cat.2; H411 - Toxic to aquatic life with long lasting effects

Data Sources: The data contained in this SDS 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 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 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

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