

SAFETY DATA SHEET



1. Identification

Product identifier Doramectin Levamisole HCL Injection Solution

Other means of identification

Product code 2968

Recommended use Veterinary product

Recommended restrictions Not for human use

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name (US) Zoetis Inc.
100 Campus Drive, P.O. Box 651
Florham Park, New Jersey 07932 (USA)

Rocky Mountain Poison and Drug Center 1-866-531-8896

Product Support/Technical Services 1-800-366-5288

Emergency telephone numbers CHEMTREC (24 hours): 1-800-424-9300

International CHEMTREC (24 hours): +1-703-527-3887

Contact E-Mail VMIPSrecords@zoetis.com

Company Name (EU) Zoetis Belgium S.A.
Mercuriusstraat 20
1930 Zaventem
Belgium

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

Contact E-Mail VMIPSrecords@zoetis.com

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards

Acute toxicity, oral	Category 4
Sensitization, skin	Category 1
Reproductive toxicity	Category 2
Reproductive toxicity	Effects on or via lactation
Specific target organ toxicity, repeated exposure	Category 1 (blood, hematopoietic system)

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 1

Hazardous to the aquatic environment, long-term hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children. Causes damage to organs (blood, hematopoietic system) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If exposed or concerned: Get medical advice/attention. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Levamisole Hydrochloride		16595-80-5	15
Benzyl Alcohol		100-51-6	<5
Doramectin		117704-25-3	0.5
Butylated hydroxyanisole		25013-16-5	<0.1
Butylated hydroxytoluene		128-37-0	<0.1
Glycerol formal		5464-28-8	

Composition comments

In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

4. First-aid measures

Inhalation

Move to fresh air. If breathing is difficult, trained personnel should give oxygen. Get medical attention immediately.

Skin contact

Wash off immediately with soap and plenty of water. Remove and isolate contaminated clothing and shoes. Wash clothing separately before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately. Continue rinsing.

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.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Signs and symptoms might include skin rash, itching, redness or swelling. May cause reproductive effects. Other: decreased white blood cells (leukopenia) may occur through prolonged or repeated exposure.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Firefighters should wear full protective gear.

Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted. Fine particles (such as mists) may fuel fires/explosions.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Clean contaminated surface thoroughly. Prevent release to the environment.

Small Spills: Wipe up with a damp cloth and place in container for disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Do not handle until all safety precautions have been read and understood. When handling, use appropriate personal protective equipment (see Section 8). Use with adequate ventilation. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid accidental injection. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities Store locked up. Store in a well-ventilated place. Do not store in direct sunlight. Keep away from heat, sparks and open flame. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Zoetis

Components	Type	Value
Doramectin (CAS 117704-25-3)	TWA	200 µg/m3
Levamisole Hydrochloride (CAS 16595-80-5)	TWA	0.18 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Butylated hydroxytoluene (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Butylated hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m3

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Benzyl Alcohol (CAS 100-51-6)	TWA	44.2 mg/m3 10 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Control banding approach Not available.

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.
Skin protection	
Hand protection	Wear impervious gloves if skin contact is possible.
Other	Wear impervious protective clothing to prevent skin contact - consider use of disposable clothing where appropriate.
Respiratory protection	Whenever excessive air contamination (dust, mist, vapor) is generated, respiratory protection, with appropriate protection factors, should be used 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.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	4 - 5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	233.6 °F (112.0 °C) (Closed cup)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated

Oxidizing properties Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Sunlight. Keep away from heat, sparks, flame and all other sources of ignition. Avoid contact with acids.; may generate Formaldehyde.

Incompatible materials Strong acids. Strong oxidizing agents.

Hazardous decomposition products Thermal decomposition products may include oxides of carbon, nitrogen, and sulfur. May include hydrogen chloride. Formaldehyde.

11. Toxicological information

Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact May cause an allergic skin reaction. Prolonged skin contact may cause temporary irritation.

Benzy Alcohol
Species: Guinea Pig
Severity: Moderate

Species: Rabbit
Severity: Minimal

Butylated hydroxytoluene
Species: Rabbit
Severity: Moderate

Doramectin
Species: Rabbit
Severity: Non-irritating

Eye contact Direct contact with eyes may cause temporary irritation.

Butylated hydroxytoluene
Species: Rabbit
Severity: Moderate

Doramectin
Species: Rabbit
Severity: Non-irritating

Benzy Alcohol
Species: Rabbit
Severity: Severe

Ingestion Harmful if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Allergic skin reactions might occur following direct contact with this material. Signs and symptoms might include skin rash, itching, redness or swelling (skin, lips, tongue or face) which can be immediate or delayed. Other: decreased white blood cells (leukopenia) may occur through prolonged or repeated exposure. May cause reproductive effects. Target Organ(s): Eyes, Skin, Blood, Hematopoietic System, Reproductive system

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause an allergic skin reaction.

Product	Species	Test Results
Doramectin Levamisole HCL Injection Solution		
Dermal		
LD50		> 5000 mg/kg (Calculated ATE)
Inhalation		
LC50		> 10 mg/l (Calculated ATE)
Oral		
LD50		1162 mg/kg (Calculated ATE)

Components	Species	Test Results
Benzyl Alcohol (CAS 100-51-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2000 mg/kg
Inhalation		
LC50	Rat	> 4.178 mg/L 1000 mg/l, 8 Hours
Oral		
LD50	Mouse	1580 mg/kg
	Rat	1230 mg/kg
Butylated hydroxyanisole (CAS 25013-16-5)		
<u>Acute</u>		
Intraperitoneal		
LD50	Rat	881 mg/kg
Oral		
LD50	Mouse	1100 mg/kg
	Rat	2000 mg/kg
<u>Chronic</u>		
Oral		
LOAEL	Rat	3300 mg/kg, 12 days Liver Blood
Butylated hydroxytoluene (CAS 128-37-0)		
<u>Acute</u>		
Intraperitoneal		
LD50	Mouse	138 mg/kg
Oral		
LD50	Mouse	650 mg/kg
	Rat	1700 mg/kg
<u>Chronic</u>		
Oral		
LOAEL	Mouse	2000 mg/kg, 4 days Liver Kidney Ureter Bladder
	Rat	5185 mg/kg, 4 weeks Liver
Doramectin (CAS 117704-25-3)		
<u>Acute</u>		
Oral		
LD50	Rat (F)	500 - 1000 mg/kg
	Rat (M)	1000 - 2000 mg/kg
<u>Chronic</u>		
Oral		
NOEL	Dog	0.1 mg/kg/day, 3 months (Central Nervous System)
	Rat	2 mg/kg/day, 3 months (Liver)
Glycerol formal (CAS 5464-28-8)		
<u>Acute</u>		
Oral		
LD50	Mouse	8000 mg/kg
Levamisole Hydrochloride (CAS 16595-80-5)		
Oral		
	Mouse	223 mg/kg
	Rat	180 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Irritation Corrosion - Skin

Doramectin

Result: Non-irritating
Species: Rabbit

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Eye Contact

Butylated hydroxytoluene

Species: Rabbit
Severity: Moderate

Doramectin

Species: Rabbit
Severity: Non-irritating

Benzyl Alcohol

Species: Rabbit
Severity: Severe

Respiratory or skin sensitization

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization May cause an allergic skin reaction.

Skin sensitization

Levamisole Hydrochloride

Result: Sensitizing

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity

Doramectin

Bacterial Mutagenicity (Ames)
Result: Negative
Species: Salmonella

Butylated hydroxyanisole

In Vitro Bacterial Mutagenicity (Ames)
Result: Negative
Species: Salmonella

In Vivo Micronucleus
Result: Negative
Species: Bone Marrow

Doramectin

Mammalian Cell Mutagenicity
Result: Negative
Species: Mouse Lymphoma

Unscheduled DNA Synthesis
Result: Negative
Species: Rat Hepatocyte

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Butylated hydroxyanisole (CAS 25013-16-5)

2B Possibly carcinogenic to humans.

Butylated hydroxytoluene (CAS 128-37-0)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Butylated hydroxyanisole (CAS 25013-16-5)

Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Suspected of damaging fertility or the unborn child. May cause harm to breastfed babies.

Developmental effects

Doramectin

> 6 mg/kg/day Embryo / Fetal Development, Not teratogenic
Result: NOEL
Species: Rat
Organ: Oral

Developmental effects

Doramectin

0.75 mg/kg/day Embryo / Fetal Development, Maternal Toxicity, Teratogenic

Result: NOEL

Species: Rabbit

Organ: Oral

3 mg/kg/day Embryo / Fetal Development, Fetotoxicity, Not Teratogenic

Result: NOEL

Species: Mouse

Organ: Oral

Butylated hydroxyanisole

30 g/kg Embryo / Fetal Development, Teratogenic

Result: LOEL

Species: Rat

Organ: Oral

Butylated hydroxytoluene

6 g/kg Embryo / Fetal Development, Teratogenic

Result: LOEL

Species: Rat

Organ: Oral

Specific target organ toxicity - single exposure Not classified.**Specific target organ toxicity - repeated exposure** Causes damage to organs (blood, hematopoietic system) through prolonged or repeated exposure.**Aspiration hazard** Not an aspiration hazard.**Chronic effects** Causes damage to organs through prolonged or repeated exposure.**12. Ecological information****Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Benzyl Alcohol (CAS 100-51-6)	EC50	Daphnia magna (Water Flea)	230 mg/L, 48 Hours
			66 mg/L, 21 Day(s) Reproduction
	LC50	Pseudokirchneriella subcapitata (Green Alga)	500 mg/L, 72 Hours
		Pimephales promelas (Fathead Minnow)	460 mg/L, 96 Hours
Aquatic Fish	LC50	Bluegill (Lepomis macrochirus)	10 mg/l, 96 hours
	Butylated hydroxytoluene (CAS 128-37-0)		
Aquatic Crustacea	EC50	Water flea (Daphnia pulex)	1.44 mg/l, 48 hours
	Doramectin (CAS 117704-25-3)		
	EC50	Daphnia magna (Water Flea)	0.0001 mg/L, 48 Hours
	LC50	Lepomis macrochirus (Bluegill Sunfish)	0.011 mg/L, 96 Hours
		Oncorhynchus mykiss (Rainbow Trout)	0.0051 mg/L, 48 Hours
	MIC	Aspergillus niger (Fungus)	600 mg/L
		Clostridium perfringens (Bacterium)	40 mg/L

Persistence and degradability No data is available on the degradability of this product.**Bioaccumulative potential****Partition coefficient n-octanol / water (log Kow)**

Doramectin 4.4

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Doramectin, Benzyl Alcohol)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Doramectin, Benzyl Alcohol)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

IATA; IMDG



General information

As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 Liters or less for liquids or having a net mass per single or inner packaging of 5 kilograms or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Butylated hydroxyanisole (CAS 25013-16-5)

US. Massachusetts RTK - Substance List

Benzyl Alcohol (CAS 100-51-6)

Butylated hydroxyanisole (CAS 25013-16-5)

Butylated hydroxytoluene (CAS 128-37-0)

US. New Jersey Worker and Community Right-to-Know Act

Butylated hydroxyanisole (CAS 25013-16-5)

Butylated hydroxytoluene (CAS 128-37-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Benzyl Alcohol (CAS 100-51-6)

Butylated hydroxytoluene (CAS 128-37-0)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Butylated hydroxyanisole (CAS 25013-16-5)

Listed: January 1, 1990

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision**Issue date** 01-15-2016**Version #** 01**List of abbreviations** ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).**Disclaimer** 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. The information in the sheet was written based on the best knowledge and experience currently available.