

SAFETY DATA SHEET



1. Identification

Product identifier	Flunixin Meglumine Injection
Other means of identification	
Synonyms	FLUNIXIN INJECTION * FLUNIXAMINE * FLUNIXAMINE (flunixin meglumine) injectable solution * MEFLOSYL
Recommended use	Veterinary product used as anti-inflammatory, analgesic
Recommended restrictions	Not for human use
Manufacturer/Importer/Supplier/Distributor information	
Company Name (USA)	Zoetis Inc. 10 Sylvan Way Parsippany, New Jersey 07054 (USA)
Rocky Mountain Poison and Drug Center	1-866-531-8896
Product Support/Technical Services	1-888-963-8471
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300 International CHEMTREC (24 hours): +1-703-527-3887
Company Name (CA)	Zoetis Canada Inc. 16740 Trans-Canada Highway Kirkland, Quebec, H9H 4M7
Emergency telephone number	International CHEMTREC (24 hours): +1-703-527-3887
Contact E-Mail	productsupport@zoetis.com
Product Support	1-800-461-0917

All Safety Data Sheets are available via our Zoetis Canada website at <https://www.zoetis.ca/sds/sds.aspx>

Supplier Not available.

2. Hazard identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity following repeated exposure	Category 1 (digestive organs, kidney)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer. Causes damage to organs (digestive system, kidneys) through prolonged or repeated exposure. Harmful 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 vapour. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should 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 CENTRE/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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor. Take off contaminated clothing and wash it before reuse.

Storage

Store locked up.

Disposal

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

Supplemental information

In the event of accidental injection, an allergic reaction may occur.

Other hazards

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Flunixin meglumine		42461-84-7	6.4
Diethanolamine		111-42-2	<1
Phenol		108-95-2	<1
Hydrochloric acid		7647-01-0	**
Water for Injection		7732-18-5	*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

** to adjust pH

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist. If breathing is difficult, trained personnel should give oxygen.

Skin contact

In the case of skin contact, immediately wash the skin with plenty of soap and water. In the event of accidental self injection or needle stick injury, wash the injury thoroughly with clean running water. Get medical attention immediately. Wash contaminated clothing before reuse.

Eye contact

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

Ingestion

Rinse mouth. Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. In the event of accidental injection, an allergic reaction may occur. Signs and symptoms might include skin rash, itching, redness or swelling. Respiratory reactions may be characterized by rhinitis, sneezing, scratchy throat, oral mucosal edema, laryngeal mucosal edema, coughing, shortness of breath, wheezing, and chest pain. Asthma like reactions occur with acute exposures in sensitized patients. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

For personal protection, see section 8 of the SDS. 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

Alcohol resistant foam. 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	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not get in eyes, on skin, or on clothing. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Ensure adequate ventilation. Wear personal protective equipment This product is miscible in water. Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. 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	Use with adequate ventilation. Do not get in eyes, on skin, on clothing. Avoid breathing mist or vapour. Avoid accidental injection. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Keep away from heat, sparks and open flame. Store in original tightly closed container. @ 15-30°C (59-86°F).. Do not allow material to freeze. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapour.
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
Phenol (CAS 108-95-2)	TWA	5 ppm	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	2 mg/m3
Hydrochloric acid (CAS 7647-01-0)	Ceiling	3 mg/m3
		2 ppm
Phenol (CAS 108-95-2)	TWA	19 mg/m3
		5 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Diethanolamine (CAS 111-42-2)	TWA	2 mg/m3

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm
Phenol (CAS 108-95-2)	TWA	5 ppm

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapour.
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
Phenol (CAS 108-95-2)	TWA	5 ppm	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapour.
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm	
Phenol (CAS 108-95-2)	TWA	5 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Type	Value	Form
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapour.
Phenol (CAS 108-95-2)	TWA	19 mg/m3 5 ppm	

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Type	Value
Diethanolamine (CAS 111-42-2)	15 minute	4 mg/m3
	8 hour	2 mg/m3
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm
Phenol (CAS 108-95-2)	15 minute	7.5 ppm
	8 hour	5 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Phenol (CAS 108-95-2)	250 mg/g	Phenol with hydrolysis	Creatinine in urine	*

* - For sampling details, please see the source document.

Exposure guidelines

Canada - Alberta OELs: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.
Phenol (CAS 108-95-2) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.
Phenol (CAS 108-95-2) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Diethanolamine (CAS 111-42-2) Danger of cutaneous absorption
Phenol (CAS 108-95-2) Danger of cutaneous absorption

Canada - Ontario OELs: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.
Phenol (CAS 108-95-2) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

Phenol (CAS 108-95-2)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

Phenol (CAS 108-95-2)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Diethanolamine (CAS 111-42-2)

Danger of cutaneous absorption

Phenol (CAS 108-95-2)

Danger of cutaneous absorption

Control banding approach

Flunixin meglumine: Zoetis OEB 2 (control exposure to the range of 100ug/m3 to < 1000ug/m3)

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. Keep air contamination levels below the exposure limits or within the OEB range listed above in this section. General ventilation normally adequate. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Industrial use: Wear safety glasses with side shields (or goggles) and a face shield.

Professional use: If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection

Wear protective gloves.

Other

Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range.

Thermal hazards

None known.

General hygiene considerations

Observe any medical surveillance requirements. Keep away from food and drink. 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.

Colour

Clear, colorless

Odour

Slight.

Odour threshold

Not available.

pH

8.3

Melting point/freezing point

0 °C (32 °F)

Initial boiling point and boiling range

100 °C (212 °F)

Flash point

Not available.

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit – upper (%)

Not available.

Vapour pressure

18 mm Hg (@ 20°C based on water)

Vapour density

> 1

Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
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.
Oxidising properties	Not oxidising.
Specific gravity	1.01

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.
Incompatible materials	Acids. Bases. Strong oxidising agents.
Hazardous decomposition products	Thermal decomposition products may include oxides of carbon, nitrogen, and sulfur. May include hydrogen chloride.

11. Toxicological information

Information on likely routes of exposure

Inhalation May be harmful if inhaled. May cause irritation to the respiratory system.

Skin contact No adverse effects due to skin contact are expected.

Flunixin meglumine

Species: Rabbit
Severity: Mild

Diethanolamine

Species: Rabbit
Severity: Moderate

Eye contact

Causes serious eye damage.

Diethanolamine

Species: Rabbit
Severity: Severe

Flunixin meglumine

Species: Rabbit
Severity: Severe

Ingestion

Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. In the event of accidental injection, an allergic reaction may occur. Signs and symptoms might include skin rash, itching, redness or swelling. Respiratory reactions may be characterized by rhinitis, sneezing, scratchy throat, oral mucosal edema, laryngeal mucosal edema, coughing, shortness of breath, wheezing, and chest pain. Asthma like reactions occur with acute exposures in sensitized patients. Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components	Species	Test Results
Diethanolamine (CAS 111-42-2)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	11.9 ml/kg

Components	Species	Test Results
Oral LD50	Rat	710 mg/kg
Flunixin meglumine (CAS 42461-84-7)		
Acute		
Inhalation LC50	Rat	< 0.52 mg/l
Oral LD50	Rat	53 - 157 mg/kg
Chronic		
Oral NOEL	Mouse	6 mg/kg/day, 97 weeks (Not carcinogenic)
	Rat	8 mg/kg/day, 104 weeks (Not carcinogenic)
		1 mg/kg/day, 1 years [Target organ(s): Gastrointestinal System, Kidney]
Hydrochloric acid (CAS 7647-01-0)		
Acute		
Dermal LD50	Mouse	1449 mg/kg
Oral LD50	Rat	238 - 277 mg/kg
Phenol (CAS 108-95-2)		
Acute		
Dermal LD50	Rabbit	630 mg/kg
	Rat	525 mg/kg
Oral LD50	Mouse	270 mg/kg
	Rat	317 mg/kg
Chronic		
Oral NOAEL	Mouse	5000 ppm, 103 weeks Not carcinogenic
	Rat	5000 ppm, 103 weeks Not carcinogenic
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Corrosivity Flunixin meglumine	Species: Rabbit Severity: Mild	
Serious eye damage/eye irritation	Causes serious eye damage.	
Eye contact Diethanolamine	Species: Rabbit Severity: Severe	
Flunixin meglumine	Species: Rabbit Severity: Severe	
Respiratory or skin sensitisation		
Canada - Alberta OELs: Irritant		
Hydrochloric acid (CAS 7647-01-0)	Irritant	
Respiratory sensitisation	Based on available data, the classification criteria are not met. In the event of accidental injection, an allergic reaction may occur.	
Skin sensitisation	Based on available data, the classification criteria are not met. In the event of accidental injection, an allergic reaction may occur.	

Skin Sensitisation
Flunixin meglumine

GPMT
Result: Negative

Germ cell mutagenicity

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

Mutagenicity
Flunixin meglumine

Bacterial Mutagenicity (Ames)
Result: Negative
Species: Bacteria

Chromosome Aberration
Result: positive
Species: Chinese Hamster Ovary (CHO) cells

Mammalian Cell Mutagenicity
Result: positive
Species: Mouse Lymphoma

micronucleus
Result: Negative
Species: Mouse

Carcinogenicity

Due to partial or complete lack of data the classification is not possible.

ACGIH Carcinogens

Diethanolamine (CAS 111-42-2)

A3 Confirmed animal carcinogen with unknown relevance to humans.

Hydrochloric acid (CAS 7647-01-0)

A4 Not classifiable as a human carcinogen.

Phenol (CAS 108-95-2)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Diethanolamine (CAS 111-42-2)

Confirmed animal carcinogen with unknown relevance to humans.

Hydrochloric acid (CAS 7647-01-0)

Not classifiable as a human carcinogen.

Phenol (CAS 108-95-2)

Not classifiable as a human carcinogen.

Canada - Quebec OELs: Carcinogen category

Diethanolamine (CAS 111-42-2)

Detected carcinogenic effect in animals.

IARC Monographs. Overall Evaluation of Carcinogenicity

Diethanolamine (CAS 111-42-2)

2B Possibly carcinogenic to humans.

Hydrochloric acid (CAS 7647-01-0)

3 Not classifiable as to carcinogenicity to humans.

Phenol (CAS 108-95-2)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Based on available data, the classification criteria are not met. This product is not expected to cause reproductive or developmental effects.

Developmental effects

Phenol

120 mg/kg Embryo / Fetal Development, Fetotoxicity Not Teratogenic
Result: LOAEL
Species: Rat
Organ: Oral

Flunixin meglumine

2 - 12 mg/kg Fertility and Embryonic Development, Not teratogenic
Result: NOEL
Species: Rat
Organ: Oral

Phenol

200 mg/kg Embryo / Fetal Development, No effects at maximum dose
Result: NOAEL
Species: Rat
Organ: Intraperitoneal

Developmental effects

Phenol

53 mg/kg Fertility and Embryonic Development, Maternal Toxicity Fetotoxicity Not Teratogenic
 Result: LOAEL
 Species: Rat
 Organ: Oral

Reproductivity

Phenol

1000 ppm 2 Generation Reproductive Toxicity, No effects at maximum dose
 Result: NOAEL
 Species: Rat
 Organ: Oral

Flunixin meglumine

3 - 9 mg/kg Reproductive & Fertility, Maternal Toxicity
 Result: NOEL
 Species: Rat
 Organ: Oral

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Causes damage to organs (digestive organs, kidney) through prolonged or repeated exposure.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Further information

In the event of accidental injection, an allergic reaction may occur. Other nonsteroidal anti-inflammatory drugs (NSAIDs) are known to impact delivery, late fetal development, and lactation.

12. Ecological information**Ecotoxicity**

Harmful to aquatic life with long lasting effects. Avoid release to the environment.

Components	Species	Test Results
Diethanolamine (CAS 111-42-2)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (Ceriodaphnia dubia) >= 61.8 - <= 86.04 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 100 mg/l, 96 hours
Flunixin meglumine (CAS 42461-84-7)		
	LC50	Salmo gairdneri (Trout) 9.2 mg/l, 96 Hours
Aquatic		
Algae	IC50	Algae > 36 - < 120 mg/l, 72 Hours
Crustacea	EC50	Daphnia magna (Water Flea) 25 mg/l, 48 Hours
Fish	LC50	Lepomis macrochirus (Bluegill Sunfish) 46 mg/l, 96 Hours
Hydrochloric acid (CAS 7647-01-0)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Western mosquitofish (Gambusia affinis) 282 mg/l, 96 hours
Phenol (CAS 108-95-2)		
Aquatic		
Algae	EC50	Selenastrum capricornutum (Green Alga) 150 mg/l, 96 Hours
Crustacea	LC50	Daphnia magna (Water Flea) 13 mg/l, Hours
Fish	LC50	Lepomis macrochirus (Bluegill Sunfish) 23.88 mg/l, 96 Hours
		Oncorhynchus mykiss (rainbow trout) 8.9 mg/l, Hours
		Pimephales promelas (Fathead Minnow) 24 mg/l, 96 Hours

Components	Species	Test Results
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) >= 4.24 - <= 10.7 mg/l, 48 hours
Fish	LC50	Asiatic knifefish (<i>Notopterus notopterus</i>) 6.85 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
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	Avoid release to the environment. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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. 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.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

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

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Hydrochloric acid (CAS 7647-01-0)

Phenol (CAS 108-95-2)

Precursor Control Regulations

Hydrochloric acid (CAS 7647-01-0)

Class B

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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

Issue date 05-April-2017

Revision date 06-June-2022

Version No. 02

List of abbreviations AICIS: Australian Inventory of Industrial Chemicals.

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.

Revision information This document has undergone significant changes and should be reviewed in its entirety.