

# SAFETY DATA SHEET



## 1. Identification

**Product identifier** Mitaban Liquid Concentrate

**Other means of identification**

**Synonyms** Mitaban® \* Mitaban Liquid \* Amitraz Liquid Concentrate

**Recommended use** Veterinary antiparasitic

**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** 1-800-366-5288

**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(s) identification

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 1
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity following repeated exposure	Category 2 (central nervous system, kidney, liver)
<b>Environmental hazards</b>	Aspiration hazard	Category 1
	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

## Label elements



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Highly flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause genetic defects. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs (central nervous system, kidney, liver) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. 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.
<b>Response</b>	IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTRE/doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.
<b>Storage</b>	Store in a well-ventilated place. Keep cool. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Other hazards</b>	None known.
<b>Supplemental information</b>	None.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Xylenes		1330-20-7	76
Amitraz		33089-61-1	19.9
Propylene oxide		75-56-9	1

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

## 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Call a physician or poison control centre immediately.
<b>Ingestion</b>	Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions.
<b>Most important symptoms/effects, acute and delayed</b>	Aspiration may cause pulmonary oedema and pneumonitis. Narcosis. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Oedema. Jaundice. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. 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. Take off all contaminated clothing immediately. 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 (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. 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 and/or explosion do not breathe fumes. 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** Highly flammable liquid and vapour.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate the contaminated area. Use appropriate containment to avoid environmental contamination. 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** Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Ground container and transfer equipment to eliminate static electric sparks. Stop the flow of material, if this is without risk. Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination.

Small Spills: Absorb spill with vermiculite or other inert material. 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. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

### Precautions for safe handling

Highly flammable. Do not handle until all safety precautions have been read and understood. May be ignited by open flame. Vapours may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use only with adequate ventilation. Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment.

Also, Industrial use: Static electricity and formation of sparks must be prevented. Take precautionary measures against static discharges. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Ground/bond container and receiving equipment. Use only non-sparking tools. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep containers tightly closed in a cool, well-ventilated place. @ 20 - 25C / 68 - 77F. Do not handle or store near an open flame, heat or other sources of ignition. Store away from direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

Also, Industrial use: This material can accumulate static charge which may cause spark and become an ignition source. Take measures to prevent the build up of electrostatic charge. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### Zoetis

#### Components

Components	Type	Value
Amitraz (CAS 33089-61-1)	TWA	10 µg/m <sup>3</sup>

#### US. ACGIH Threshold Limit Values

#### Components

Components	Type	Value
Propylene Oxide (CAS 75-56-9)	TWA	2 ppm
Xylenes (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

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

#### Components

Components	Type	Value
Propylene Oxide (CAS 75-56-9)	TWA	4.7 mg/m <sup>3</sup>
		2 ppm
Xylenes (CAS 1330-20-7)	STEL	651 mg/m <sup>3</sup>
		150 ppm
	TWA	434 mg/m <sup>3</sup>
		100 ppm

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

#### Components

Components	Type	Value
Propylene Oxide (CAS 75-56-9)	TWA	2 ppm
Xylenes (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

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

Components	Type	Value
Propylene Oxide (CAS 75-56-9)	TWA	2 ppm
Xylenes (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

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

Components	Type	Value
Propylene Oxide (CAS 75-56-9)	TWA	2 ppm
Xylenes (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

**Canada. Quebec OELs. (Ministry of Labour - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value
Propylene Oxide (CAS 75-56-9)	TWA	48 mg/m3
		20 ppm
Xylenes (CAS 1330-20-7)	STEL	651 mg/m3
		150 ppm
	TWA	434 mg/m3
		100 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling time
Xylenes (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

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

**Control banding approach**

Not available.

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. 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. General ventilation normally adequate. Eye wash fountain and emergency showers are recommended.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses or goggles if eye contact is possible.

**Skin protection****Hand protection**

Wear appropriate chemical resistant gloves. Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.

**Other**

Wear suitable protective clothing. Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.

**Respiratory protection**

No personal respiratory protective equipment normally required. 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 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**

Not applicable.

**General hygiene considerations**

Observe any medical surveillance requirements. When using do not smoke. 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**

Pale amber brown.

<b>Odour</b>	Aromatic.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	13.0 °C (55.4 °F)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Conditions to avoid</b>	Contact with incompatible materials. Keep away from heat, spark, open flames and other sources of ignition.
<b>Incompatible materials</b>	Strong acids. Strong oxidising agents. Halogens. Peroxides. Phenols.
<b>Hazardous decomposition products</b>	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause mucous membrane and respiratory tract irritation.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Propylene oxide	Species: Rabbit Severity: Irritant
Xylenes	Species: Rabbit Severity: Moderate

**Skin contact**

Amitraz

Species: Rabbit  
Severity: Non-irritating**Eye contact**

Propylene oxide

Causes serious eye irritation.

Species: Rabbit  
Severity: Irritant

Amitraz

Species: Rabbit  
Severity: Non-irritating

Xylenes

Species: Rabbit  
Severity: Slight**Ingestion**

Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Symptoms related to the physical, chemical and toxicological characteristics**

Aspiration may cause pulmonary oedema and pneumonitis. Narcosis. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Oedema. Jaundice.

**Information on toxicological effects****Acute toxicity**

May be fatal if swallowed and enters airways.

**Product****Species****Test results**

Mitaban Liquid Concentrate

**Acute****Dermal**

ATE

5000 mg/kg

**Inhalation**

ATE

&gt; 5 mg/l

**Oral**

ATE

1000 mg/kg

**Components****Species****Test results**

Amitraz (CAS 33089-61-1)

**Acute****Dermal**

LD50

Mouse

1085 mg/kg

Rabbit

&gt; 200 mg/kg

**Inhalation**

LD50

Rat

2.4 mg/l

**Intraperitoneal**

LD50

Rat

800 mg/l

**Oral**

LD50

Rat

400 mg/kg

**Chronic****Oral**

NOAEL

Mouse

15 mg/kg/day, 80 weeks (Effects: Tumors)

11 mg/kg/day, 104 weeks (Effects: Liver, Tumors)

Rat

2.5 mg/kg/day, 2 years (Effects: Central nervous system)

**Subacute****Dermal**

NOEL

Rabbit

50 mg/kg/day, 21 days (Effects: Skin, Lymphatic system, Central Nervous System)

Components	Species	Test results
<b><u>Subchronic</u></b>		
<b>Oral</b>		
LOEL	Rat	12 mg/kg/day, 90 days (Effects: Heart)
NOEL	Dog	0.25 mg/kg/day, 90 days (Effects: Liver, Central Nervous System)
	Mouse	3 mg/kg/day, 90 days (Effects: Liver)
Propylene oxide (CAS 75-56-9)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	1245 mg/kg
<b>Inhalation</b>		
LC50	Rat	4000 ppm, 4 hours
<b>Oral</b>		
LD50	Rat	380 mg/kg
<b><u>Chronic</u></b>		
<b>Inhalation</b>		
LOEL	Rat	200 ppm, 2 years Tumors, neoplasms
Xylenes (CAS 1330-20-7)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 43 g/kg
<b>Inhalation</b>		
LC50	Rat	6350 ppm
<b>Oral</b>		
LD50	Mouse	1590 mg/kg
	Rat	4.3 - 8.8 g/kg
		3523 - 8600 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Corrosivity</b>		
Amitraz	Species: Rabbit Severity: Non-irritating	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Eye contact</b>		
Propylene oxide	Species: Rabbit Severity: Irritant	
Amitraz	Species: Rabbit Severity: Non-irritating	
Xylenes	Species: Rabbit Severity: Slight	
<b>Respiratory or skin sensitisation</b>		
<b>ACGIH sensitisation</b>		
Propylene oxide (CAS 75-56-9)	Dermal sensitization	
<b>Canada - British Columbia OELs: Respiratory or skin sensitiser</b>		
Propylene oxide (CAS 75-56-9)	Capable of causing respiratory, dermal or conjunctival sensitization.	
<b>Canada - Manitoba OELs Hazard: Dermal sensitization</b>		
Propylene oxide (CAS 75-56-9)	Dermal sensitization	
<b>Canada - Saskatchewan OELs Hazard Data: Sensitiser</b>		
Propylene oxide (CAS 75-56-9)	Sensitiser.	



<b>Respiratory sensitisation</b>	Not a respiratory sensitizer.
<b>Skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	May cause genetic defects.
<b>Mutagenicity</b>	
Amitraz	In Vitro Bacterial Mutagenicity (Ames) Result: negative Species: Salmonella
Xylenes	In Vitro Bacterial Mutagenicity (Ames) Result: negative Species: Salmonella
Propylene oxide	In Vitro Bacterial Mutagenicity (Ames) Result: positive Species: Salmonella , E. coli
Amitraz	In Vitro Chromosome Aberration Result: negative Species: Human lymphocytes
Propylene oxide	In Vitro Chromosome Aberration Result: positive Species: Human lymphocytes
	In Vitro Mammalian Cell Mutagenicity Result: positive Species: Mouse Lymphoma
	In Vitro Sister Chromatid Exchange Result: positive Species: Human lymphocytes
Xylenes	In Vivo Chromosome Aberration Result: negative Species: Rat Bone Marrow
	In Vivo Dominant Lethal Assay Result: negative Species: Mouse
	In Vivo Micronucleus Result: negative Species: Mouse
Propylene oxide	In vivo Result: positive Species: Mouse Bone Marrow
Amitraz	Mammalian Cell Mutagenicity Result: negative Species: Mouse Lymphoma
	Unscheduled DNA Synthesis (Human embryonic cells) Result: negative
<b>Carcinogenicity</b>	Suspected of causing cancer.
<b>ACGIH Carcinogens</b>	
Propylene oxide (CAS 75-56-9)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Xylenes (CAS 1330-20-7)	A4 Not classifiable as a human carcinogen.
<b>Canada - Manitoba OELs: carcinogenicity</b>	
Propylene oxide (CAS 75-56-9)	Confirmed animal carcinogen with unknown relevance to humans.
Xylenes (CAS 1330-20-7)	Not classifiable as a human carcinogen.
<b>Canada - Quebec OELs: Carcinogen category</b>	
Propylene oxide (CAS 75-56-9)	Suspected carcinogenic effect in humans.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Propylene oxide (CAS 75-56-9)

2B Possibly carcinogenic to humans.

Xylenes (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

## US. National Toxicology Program (NTP) Report on Carcinogens

Propylene oxide (CAS 75-56-9)

Reasonably Anticipated to be a Human Carcinogen.

### Reproductive toxicity

Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging fertility or the unborn child.

### Developmental effects

Amitraz

12 mg/kg/day Embryo / Fetal Development, Not Teratogenic

Result: NOAEL

Species: Rabbit

Organ: Oral

20 mg/kg/day Prenatal & Postnatal Development, Developmental toxicity

Result: LOAEL

Species: Rat

Organ: Oral

30 mg/kg/day Embryo / Fetal Development, Not teratogenic

Result: NOAEL

Species: Rat

Organ: Oral

### Reproductivity

Amitraz

20 mg/kg/day Reproductive & Fertility, Fertility

Result: NOAEL

Species: Rat

Organ: Oral

### Specific target organ toxicity - single exposure

Not classified.

### Specific target organ toxicity - repeated exposure

May cause damage to organs (central nervous system, kidney, liver) through prolonged or repeated exposure.

### Aspiration hazard

May be fatal if swallowed and enters airways.

### Chronic effects

Prolonged exposure may cause chronic effects.

### Further information

CAUTION! May be harmful if absorbed through skin. Breathing high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea, and loss of coordination. Continued inhalation may result in unconsciousness and death. Adverse effects most commonly reported in clinical use include sedation and skin effects.

## 12. Ecological information

### Ecotoxicity

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

#### Components

#### Species

#### Test results

Amitraz (CAS 33089-61-1)

LC50

Lepomis macrochirus (Bluegill Sunfish)

0.34 ppm, 96 Hours

Oncorhynchus mykiss (Rainbow Trout)

0.74 ppm, 96 Hours

Propylene oxide (CAS 75-56-9)

EC50

Daphnia magna (Water Flea)

350 mg/l, 48 Hours

LC50

Salmo gairdneri (Trout)

52 mg/l, 96 Hours

Xylenes (CAS 1330-20-7)

LC50

Oncorhynchus mykiss (Rainbow Trout)

13.5 mg/l, 96 Hours

Pimephales promelas (Fathead Minnow)

42 mg/l, 96 Hours

### Aquatic

Fish

LC50

Bluegill (Lepomis macrochirus)

7.711 - 9.591 mg/l, 96 hours

### Persistence and degradability

No data is available on the degradability of this product.

### Bioaccumulative potential

No data available for this product.

<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	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

<b>Disposal instructions</b>	Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. 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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

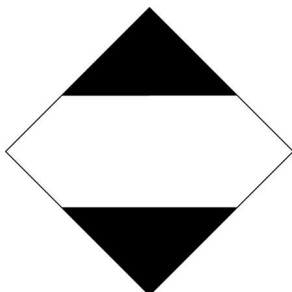
### 14. Transport information

<b>TDG</b>	
<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	Flammable liquid, n.o.s. (Xylenes, Propylene oxide)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	Not available.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling. Excepted Quantity.
<b>IATA</b>	
<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	Flammable liquid, n.o.s. (Xylenes, Propylene oxide)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	No.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling. Excepted Quantity.
<b>IMDG</b>	
<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	Flammable liquid, n.o.s. (Xylenes, Propylene oxide), MARINE POLLUTANT (Xylenes, Amitraz), Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-E, S-E
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not established.

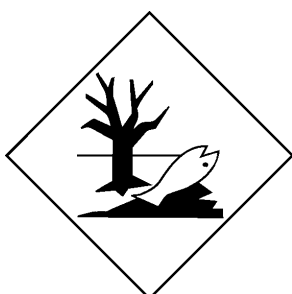
IATA; TDG



IMDG



Marine pollutant



**General information**

Excepted Quantity. IMDG Regulated Marine Pollutant. 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. Transport according to the requirements of the appropriate regulatory body.

## 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)**

Xylenes (CAS 1330-20-7)

**Precursor Control Regulations**

Not regulated.

**International regulations**

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
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	No
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**

**Issue date** 08-June-2017

**Version No.** 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.

**Revision information** Product and Company Identification: Synonyms  
Composition / Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties  
Toxicological Information: Toxicological Data  
Transport Information: Material Transportation Information  
GHS: Qualifiers