

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Product name : ORTHENE® 75 SP INSECTICIDE
 Other means of identification : EPA Reg. No. 66330-354
 PMRA Reg. No. 14225

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Insecticide

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience North America LLC
 15401 Weston Parkway, Suite 150
 Cary, NC 27513 – USA

Arysta LifeScience
 400 Michener Road, Unit 2
 Guelph, Ontario
 N1K 1E4

1.4. Emergency telephone number

Emergency number : Exposure Calls (PROSAR): +1-866-303-6952 or +1-651-603-3432 (international)
 Spill Calls (CHEMTREC) (Contract # CCN1779): +1-800-424-9300 or +1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS classification

Acute Tox. 4 (Oral) H302
 Carc. 2 H351

Full text of H-statements: see section 16

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



GHS07

GHS08

Signal word (GHS) :

Warning

Hazard statements (GHS) :

H302 - Harmful if swallowed
 H351 - Suspected of causing cancer

Precautionary statements (GHS) :

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P264 - Wash hands thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P280 - Wear eye protection, protective clothing, protective gloves
 P301+P312 - If swallowed: Call a doctor if you feel unwell
 P308+P313 - If exposed or concerned: Get medical advice/attention
 P330 - Rinse mouth
 P405 - Store locked up
 P501 - Dispose of contents/container to an authorised waste collection point

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to the Canada Hazardous Products Regulation (HPR)

3.2. Mixture

Name	Product identifier	% (w/w)	GHS classification
Acephate Technical (Main constituent)	(CAS No) 30560-19-1	75.2	Acute Tox. 4 (Oral), H302 Carc. 2, H351

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of soap and water.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Drain stomach by gastric lavage under qualified medical supervision.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Suspected of causing cancer.
Symptoms/injuries after skin contact	: May cause moderate irritation.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Antidote : atropine.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry chemical. Water fog. Water spray. fog. Foam.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Burning produces irritating, toxic and noxious fumes.
Reactivity	: No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions	: Move containers away from the fire area if this can be done without risk. Cool adjacent structures and containers with water spray to protect and prevent ignition.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid creating or spreading dust. Avoid contact with skin and eyes.
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6.1.1. For non-emergency personnel

Protective equipment	: Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures	: Evacuate unnecessary personnel. Keep upwind.

6.1.2. For emergency responders

Protective equipment	: Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures	: Stop leak if safe to do so. Ventilate area. Keep upwind.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage. Stop the flow of material, if this is without risk.
Methods for cleaning up	: Minimize generation of dust. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. On land, sweep or shovel into suitable containers. Store away from other materials.

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6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Do not store near food, foodstuffs, drugs, or potable water supplies.
- Incompatible products : Acids. Alkali.
- Heat and ignition sources : Keep away from heat, sparks and flame.
- Prohibitions on mixed storage : Keep away from incompatible materials.
- Storage area : Store in dry, cool, well-ventilated area. Keep out of reach of children.

7.3. Specific end use(s)

Insecticide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ORTHENE® 75 SP INSECTICIDE	
ACGIH	Not applicable
OSHA	Not applicable
Acephate Technical (30560-19-1)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

- Appropriate engineering controls : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Use only outdoors or in a well-ventilated area.
- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear suitable gloves. natural rubber gloves.
- Eye protection : In case of dust production: protective goggles.
- Skin and body protection : Long sleeved protective clothing.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use self-contained breathing apparatus.
- Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : Powder
- Colour : White
- Odour : Strong
- Odour threshold : No data available
- pH : 5
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Relative evaporation rate (butyl acetate=1) : No data available
- Flammability (solid, gas) : Not highly flammable
- Explosive limits : Lower explosion limit of dispersed dust in air with a particle size less than 63 µm is 30 g/m³

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Explosive properties	: Product is not sensitive to friction, shock, or thermal explosion
Oxidising properties	: No oxidizing properties.
Vapour pressure	: Non-volatile
Density	: 0.4 – 0.48 g/ml
Relative vapour density at 20 °C	: No data available
Solubility	: Soluble in water. Water: Solubility in water of component(s) of the mixture : • Acephate Technical: 790 g/l @ 25 °C Ethanol: moderately soluble Acetone: moderately soluble Organic solvent:slightly soluble
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Acids. Alkali.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes. Thermal decomposition generates : Nitrogen oxides. Phosphoric acid. Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Oral: Harmful if swallowed.

ORTHENE® 75 SP INSECTICIDE	
LD50 oral rat	1494 mg/kg
LD50 dermal rat	> 1000 mg/kg
LC50 inhalation rat (mg/l)	> 12.1 mg/l 1 h
ATE US (oral)	1494.000 mg/kg bodyweight

Acephate Technical (30560-19-1)	
LD50 oral rat	1030 mg/kg female; 1,447 mg/kg male
LD50 dermal rabbit	> 10000 mg/kg
LC50 inhalation rat (mg/l)	> 15 mg/l/4h
ATE US (oral)	1030.000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified (Slightly irritating to skin)
Serious eye damage/irritation	: Not classified (Slightly irritant but not relevant for classification)

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Respiratory or skin sensitisation	: Not classified (No sensitizing reaction was observed for guinea pigs)
Germ cell mutagenicity	: Not classified Acephate - No evidence of effects during in vivo or in vitro studies
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified In animals, exposure to Acephate may decrease offspring survival and body weight
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after skin contact	: May cause moderate irritation.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Acephate Technical (30560-19-1)	
LC50 fish 1	1725 ppm 96 h Black bass; 2,050 ppm 96 h Bluegill; 2,230 ppm 96 h Catfish; 6,650 ppm 96 h Mosquito fish; 750 ppm 120 h Crayfish
LC50 other aquatic organisms 1	0.05516 mg/l 48 h Daphnia
LC50 fish 2	9550 ppm 96 h Goldfish

12.2. Persistence and degradability

ORTHENE® 75 SP INSECTICIDE	
Persistence and degradability	Not established.

Acephate Technical (30560-19-1)	
Biodegradation	Half life 4.5 - 32 days depending on soil type

12.3. Bioaccumulative potential

ORTHENE® 75 SP INSECTICIDE	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

ORTHENE® 75 SP INSECTICIDE	
Ecology - soil	Expected to be highly mobile in soil.

Acephate Technical (30560-19-1)	
Ecology - soil	Expected to be highly mobile in soil.

12.5. Other adverse effects

Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not considered a dangerous good for transport regulations

Additional information

Other information	: No supplementary information available.
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ADR

No additional information available

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Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Acephate Technical (30560-19-1)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313

15.2. International regulations

CANADA

Acephate Technical (30560-19-1)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

Acephate Technical (30560-19-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302

Full text of H-statements: see section 16

National regulations

Acephate Technical (30560-19-1)

Not listed on the Canadian Non-Domestic Substances List (NDSL).

15.3. US State regulations

Acephate Technical (30560-19-1)

U.S. - New Jersey - Right to Know Hazardous Substance List

15.4. US EPA – FIFRA Regulations

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Signal word (FIFRA) : Caution

Hazard statements (FIFRA) : Harmful if swallowed.

Environmental hazards : This pesticide is toxic to birds.

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

SECTION 16: Other information

Indication of changes : Original Document.

Revision date : 05/21/2015

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Safety Data Sheet

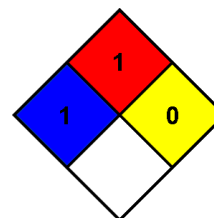
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Data sources	: ACGIH (American Conference of Government Industrial Hygienists). National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html .
Abbreviations and acronyms	: ATE: Acute Toxicity Estimate. CAS (Chemical Abstracts Service) number. CLP: Classification, Labelling, Packaging. EC50: Environmental Concentration associated with a response by 50% of the test population. LD50: Lethal Dose for 50% of the test population. GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). NOEC: No Observable Effect Concentration. OSHA: Occupational Safety & Health Administration. TSCA: Toxic Substances Control Act.
Other information	: None.

Full text of H-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
H302	Harmful if swallowed
H351	Suspected of causing cancer

NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



SDS US (GHS HazCom 2012)

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product