

ORTHENE 97% SOLUBLE GRANULE SYSTEMIC INSECTICIDE according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Canada Hazardous Product Regulation (HPR)

Version: 3.2

	Canada Hazardous Product Regulat	tion (HPR)	Version: 3.2	
	Date of issue: 08/05/2009 R	evision date: 02/25/2016	Supersedes: 09/17/2015	
SECTION 4. Identification of		nd of the component	lundortoking	
SECTION 1: Identification of	the substance/mixture a	nd of the company	undertaking	
1.1. Product identifier				
Product form	: Mixture			
Product name	: ORTHENE 97% SO	OLUBLE GRANULE SYS	TEMIC INSECTICIDE	
Synonyms	: ORTHENE [®] ULTR	A 97% SG		
Other means of identification	: EPA Reg. No. 663	30-360		
	PMRA Reg. No. 29	499		
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	e safety data sheet			
Arysta LifeScience North America LLC		Arysta LifeScie	nce	
15401 Weston Parkway, Suite 150		400 Michener F	Road, Unit 2	
Cary, NC 27513 – USA		Guelph, Ontari	0	
		N1K 1E4		
1.4. Emergency telephone num	ber			
Emergency number	: Exposure Calls (PF	ROSAR): +1-866-303-695	2 or +1-651-603-3432 (international)	
0	Spill Calls (CHEMT	(Contract # CCN1)	779): +1-800-424-9300 or +1-703-527-3887	
	(international)	-/(-,	
SECTION 2: Hazards identific	ation			
2.1. Classification of the substa	ance 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	
Other hazards not contributing to the classification	: Combustible dust.

2.4. Unknown acute toxicity (GHS)

1.46 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

1.46 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Safety Data Sheet

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

3.1. Substance				
Not applicable				
3.2. Mixture				
Name		Product identifier	% (w/w)	GHS classification
Acephate Technical (Main constituent)		(CAS No) 30560-19-1	97.2	Acute Tox. 4 (Oral), H302 Carc. 2, H351
Acetic acid ethenyl ester, polymer with 1-ether pyrrolidinone	yl-2-	(CAS No) 25086-89-9	1.455	Comb. Dust, H232
Full text of H-statements: see section 16				
SECTION 4: First aid measures				
4.1. Description of first aid measu	es			
First-aid measures general		er give anything by mouth to an u unwell.	nconscious person. G	et medical advice/attention if you
First-aid measures after inhalation	: Ren	nove person to fresh air and keep	comfortable for breath	iing.
First-aid measures after skin contact	: Was	sh with plenty of soap and water.		
First-aid measures after eye contact	: In ca	ase of contact, immediately flush (eyes with plenty of wat	er.
First-aid measures after ingestion		se mouth. Call a POISON CENTE tric lavage under qualified medica		if you feel unwell. Drain stomach by
4.2. Most important symptoms and	l effects, both	n acute and delayed		
Symptoms/injuries	: Sus	pected 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		allowing a small quantity of this ma llowed.	aterial will result in seri	ous health hazard. Harmful if
4.3. Indication of any immediate m	edical attenti	on and special treatment neede	ed	
Treat symptomatically. Antidote : atropine				
SECTION 5: Firefighting measu	res			
5.1. Extinguishing media				
Suitable extinguishing media	: Carl	bon dioxide. Dry chemical. Water	fog. Water spray. fog.	Foam.
Unsuitable extinguishing media	: Non	e known.		
5.2. Special hazards arising from	he substance	e or mixture		
Fire hazard	: Buri	ning produces irritating, toxic and	noxious fumes.	
Explosion hazard	: Dus	t may form explosive mixture in ai	r.	
Reactivity	: No (dangerous reactions known.		
5.3. Advice for firefighters				
Firefighting instructions		ve containers away from the fire and containers with water s		
Protection during firefighting		not enter fire area without proper p -contained breathing apparatus.	protective equipment,	ncluding respiratory protection. Use

SECTION 6	Accidental release measures	
6.1. Pers	nal precautions, protective equipment and emergency procedures	
General measu	es : Avoid creating or spreading dust. Avoid contact with skin and eyes.	
6.1.1. For	n-emergency personnel	
Protective equi	nent : Chemical goggles or safety glasses. Wear suitable gloves.	
Emergency pro	edures : Evacuate unnecessary personnel. Keep upwind.	
6.1.2. For	ergency responders	
Protective equi	nent : Chemical goggles or safety glasses. Wear suitable gloves.	
Emergency pro	edures : Stop leak if safe to do so. Ventilate area. Keep upwind.	
6.2. Envi	nmental precautions	
Prevent entry t	sewers and public waters.	

02/25/2016

Safety Data Sheet

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

6.3. Methods and materia	al 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.
6.4. Reference to other s	ections
Section 13: disposal information	. Section 7: safe handling. Section 8: personal protective equipment.
SECTION 7: Handling ar	d storage
7.1. Precautions for safe	handling
Precautions for safe handling	: 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 s	storage, including any incompatibilities
Storage conditions	: Do not store near food, foodstuffs, drugs, or potable water supplies.
Incompatible products	: Acids. Alkali.
ncompatible materials	: Heat sources.
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 c	ontrols/personal protection
8.1. Control parameters	
ORTHENE 97% SOLUBLE G	RANULE SYSTEMIC INSECTICIDE
ACGIH	Not applicable
OSHA	Not applicable
Acephate Technical (30560-1	9-1)
ACGIH	Not applicable
OSHA	Not applicable
Acetic acid ethenyl ester, po	Iymer with 1-ethenyl-2-pyrrolidinone (25086-89-9)
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

	apparatus.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Ph	sical and chemical properties
9.1. Informatio	on basic physical and chemical properties
Physical state	: Solid
Appearance	: White.
Colour	: Off-white
Odour	: strong

Safety Data Sheet

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

Odaur thrashold	. Na data availabla
Odour threshold	: No data available
pH	: 4.2 @ 23 °C
Melting point	: 86.9 - 91 °C
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)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: 1.35
Relative vapour density at 20 °C	: No data available
Density	: 0.656 g/ml @ 22 °C
Solubility	: Soluble in water. Ethanol: Moderately soluble Acetone: Moderately soluble Organic solvent:Slight-moderately 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. R	eactivity
No dangero	us reactions known.
10.2. C	hemical stability
Stable unde	er normal conditions.
10.3. P	ossibility of hazardous reactions
Hazardous	polymerization will not occur.
10.4. C	onditions to avoid
Ignition sou	rces when dusting occurs.
10.5. In	compatible materials
Acids. Alkal	i.
10.6. H	azardous decomposition products

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

SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Likely routes of exposure	: Inhalation; Skin and eye contact
Acute toxicity	: Oral: Harmful if swallowed.
ORTHENE 97% SOLUBLE GRANULE SYSTE	MIC INSECTICIDE
LD50 oral rat	688 mg/kg males
LD50 dermal rat	> 2000 mg/kg

ATE US (oral)

688.000 mg/kg bodyweight

Safety Data Sheet

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

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
Acetic acid ethenyl ester, polymer with 1-et	henyl-2-pyrrolidinone (25086-89-9)
LD50 oral rat	> 5000 mg/kg
Skin corrosion/irritation	: Not classified
	(Slightly irritating to skin)
Serious eye damage/irritation	: Not classified
	(Slightly irritant but not relevant for classification)
Respiratory or skin sensitisation	: Not classified
	(No sensitizing reaction was observed for guinea pigs)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
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 ppm120 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

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

12.3. Bioaccumulative potential

No additional information available

12.4.	Mobility in soil	
Acephate Technical (30560-19-1)		
Ecolog	y - soil	Expected to be highly mobile in soil.
12.5.	Other adverse effects	

No additional information available

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.			

Safety Data Sheet

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

SECTION 14: Transport informati	ion		
Department of Transportation (DOT)			
In accordance with DOT			
Not considered a dangerous good for transp	port regulations		
Additional information	-		
Other information	: No supplementary information available.		
ADR			
No additional information available			
Transport by sea IMDG			
Transport hazard class(es) (IMDG)	: Not applicable		
Air transport			
IATA			
Transport hazard class(es) (IATA)	: Not applicable		
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 Subject to reporting requirements of United States SARA Section 313			
Acetic acid ethenyl ester, polymer with	1-ethenyl-2-pyrrolidinone (25086-89-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
15.2. International regulations			
isizi international regulations			

CANADA

Acephate Technical (30560-19-1)

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

Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone (25086-89-9)

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)

National regulations

Acephate Technical (30560-19-1)

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

Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone (25086-89-9)

Polymer exempt from EINECS

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.

SDS ID: ALS 1505009

Safety Data Sheet

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

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.
	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	on
Revision date	: 02/25/2016
Data sources	: ACGIH (American Conference of Governement 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:

	H232	May ignite spontaneously if exposed to air
	H302	Harmful if swallowed
	H351	Suspected of causing cancer
NFPA ł	nealth hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA f	ire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity		: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

Indication of changes: Transport information.

Redstone SDS USCAN (GHS) for Arysta

SDS Prepared by:	The Redstone Group, LLC. 6077 Frantz Rd Suite 206
	Dublin, Ohio, USA 43016
	614.923.7472
	www.redstonegrp.com

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