



Issuing Date 01-Apr-2011

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Revision Number 2

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name **SUREMITE™ SC MITICIDE**

Other means of identification

Product Code 2122020
CAS Number 153233-91-1
Formula C₁₄H₉CIF₂N₂O₂
Synonyms Benzamide, N-[[[(4-Chlorophenyl)Amino]Carbonyl]-2,6-Difluoro-
EPA Registration Number 2749-612

Recommended use of the chemical and restrictions on use

Recommended Use Agriculture
Uses advised against Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address ACETO LIFE SCIENCES, LLC
4 Tri Harbor Court
Port Washington, NY 11050-4661
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: aceto@aceto.com

Emergency telephone number(s)

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2
Germ Cell Mutagenicity	Category 2
Chronic aquatic toxicity	Category 1
Acute aquatic toxicity	Category 1

Label elements

Emergency Overview

Signal Word
DANGER

Hazard statements

Toxic if inhaled
 Causes skin irritation
 Causes serious eye irritation
 Suspected of causing genetic defects
 Very toxic to aquatic life with long lasting effects

**Appearance**

Opaque Off-white

Physical State

Liquid

Odor

Sweet Odor

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Wash face, hands and any exposed skin thoroughly after handling
 Wear eye/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 Specific treatment (see supplemental first aid instructions on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present.
 If eye irritation persists: Get medical advice/attention
 IF ON SKIN: Wash with plenty of soap and water
 If skin irritation occurs: Get medical advice/attention
 Take off contaminated clothing and wash before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Benzamide, N-[[[(4-Chlorophenyl)Amino]Carbonyl]-2,6-Difluoro-

FormulaC₁₄H₉ClF₂N₂O₂

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
Etoazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole)	153233-91-1	31.7	True

4. FIRST AID MEASURES

First Aid Measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Call a physician or poison control center immediately.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-Protection of the First Aider	Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.

Most important symptoms and effects, both acute and delayed

Signs and Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Water spray. Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam.
<u>Unsuitable Extinguishing Media</u>	No information available.
<u>Hazardous Combustion Products</u>	Thermal decomposition or combustion may produce hazardous gases and/or materials.
<u>Explosion Data</u>	Not available
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental Precautions	Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for Clean-up	Evacuate personnel to safe areas. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean contaminated surface thoroughly.
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7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Avoid repeated exposure.
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Conditions for safe storage, including any incompatibilities

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.
Incompatible Materials	None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Guidelines</u>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole) 153233-91-1	-	-	-
Other Ingredients N/A	-	-	-

Appropriate engineering controls

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tight sealing safety goggles.
Skin and body protection	Use suitable eye protection and gloves.
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Opaque Off-white
Physical State	Liquid
Odor	Sweet Odor
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5.80 (1% dispersion)	
Melting point / Freezing point	No Data Available	Literary Reference
Boiling point / boiling range	No information available	
Flash Point	No Data Available	No information available
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air	No information available	
Upper flammability limit	No information available	
Lower flammability limit	Not available	
Vapor Pressure	No information available	
Vapor Density	Not available	
Specific Gravity	No information available	
Water Solubility	Dispersible in water	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not available	
Autoignition temperature °C	No Data Available	Estimated
Decomposition temperature	No Data Available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	Not available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other Information

Softening Point	No information available
Molecular Weight	No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	1.09 g/cm ³ @ 25°C
Corrosion characteristics	No information available

10. STABILITY AND REACTIVITY

Reactivity	Not applicable.
Chemical Stability	Stable under normal conditions
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	No information available.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen oxides (NO _x). Hydrogen chloride gas. Hydrogen fluoride.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole)	>5000 mg/kg	>5000 mg/kg	>2.07 mg/L

Component Information

The following values are calculated based on chapter 3.1 of the GHS document

Information on likely routes of exposure

Eyes	Irritating to eyes. Avoid contact with eyes.
Skin	Irritating to skin. Avoid contact with skin.
Inhalation	Avoid breathing dust.
Ingestion	Do not take internally.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chemical name	ACGIH	IARC	NTP	OSHA
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole) 153233-91-1	-	-	-	-
Other Ingredients N/A	-	-	-	-

Serious eye damage/irritation No information available.

Skin Corrosion/Irritation No information available.

Sensitization No information available.

Reproductive Effects No information available.

Mutagenic Effects Suspected of causing genetic defects.

Developmental Effects No information available.

STOT - single exposure No information available.

STOT - Repeated Exposure No information available.

Chronic Toxicity Avoid repeated exposure. Two rat studies have been conducted with rats fed the active ingredient in the diet. The first study, conducted at dose levels of 0,4,16 and 64mg/kg/day, indicated liver toxicity and tumors of the testis and pancreas, but a MTD was not achieved. A second confirmatory study was conducted at dose levels of 0, 5, 5000, and 10000 ppm. The findings in the second study confirm that Etoxazole is not carcinogenic. Two oncogenicity studies were also conducted in mice using dietary levels ranging from 15 to

4500ppm. Again, the active ingredient was found to be toxic to the liver at high doses, but not carcinogenic. In a one year dog study, an increase in absolute and relative liver weights were observed with histopathological changes in the liver at 1000 and 5000 ppm. The NOEL for this study was 200ppm.

Subchronic Toxicity

Compound-related effects observed in rodent studies, at dietary dose levels of the active ingredient, included increased liver weight, histological changes in the liver, and slight changes in hematology and blood biochemistry parameters. The NOELs in rats and mice were 100 and 400 ppm, respectively. In a 13-week feeding study in dogs with the active ingredient, dose related effects noted at the top two levels included increased liver weights, decreased prostate weights, acinar cell atrophy, and changes in blood biochemistry. the NOEL for this study was 200 ppm. In a 28 day dermal study, no adverse effects were observed in doses up to 1000mg/kg/day. No neurotoxic or immunotoxic effects were noted in studies using an excess of 1000 mg/kg/day.

Target Organ Effects

Skin.

Aspiration Hazard

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects
Avoid release to the environment

6 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole) 153233-91-1	-	-	-	-

Persistence/Degradability

Not readily biodegradable.

Bioaccumulation/Accumulation

No information available.

Mobility in Soil

No information available.

Chemical name	log Pow =
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole) 153233-91-1	-

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods

Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated
Equipment Requirements	PP

15. REGULATORY INFORMATION

International Inventories

TSCA	Does not comply
Canada (DSL)	Does not comply
EU (EINECS)	Does not comply
EU (ELINCS)	Does not comply
Japan (ENCS)	Does not comply
China (IECSC)	Does not comply
Korea (KECL)	Does not comply
Philippines (PICCS)	Does not comply
Australia (AICS)	Does not comply
Mexico INV	Does not comply
Taiwan INV	Does not comply

Chemical name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole)	-	-	-	-	
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
-	-	-	Present	-	-
Chemical name	Mexico INV		Taiwan INV		
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole) 153233-91-1	Present		Present		

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA. This chemical is a pesticide product registered by the 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 by Safety Data Sheets, and for workplace labels of non-pesticide chemicals.

Federal Regulations

Chemical name	CAS No.	U.S.Commerce Dept. Export Administration Regulations
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole)	153233-91-1	1C009

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

VOC content

This Product does not contain any VOCs

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole) 153233-91-1	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	CERCLA/SARA Hazardous Substances	CERCLA/SARA RQ	RQ
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole) 153233-91-1	-	-	-

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

This product does not contain any State Right-to-Know chemicals.

Chemical name	New Jersey	Massachusetts	Illinois	Rhode Island	Pennsylvania
Etoxazole (2-(2,6-difluorophenyl)-4-[4-(1,1-dimethylethyl)-2-ethoxyphenyl]-4,5-dihydrooxazole) 153233-91-1	-	-	-	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number 2749-612

Canada

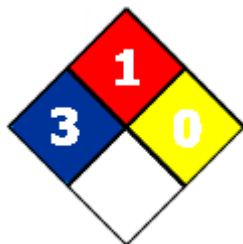
WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

NFPA

Health 3 Flammability 1 Instability 0 Physical Hazard 0



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 Not available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet