



Material Safety Data Sheet

ACRAMITE®-50WS

Version: 1.8

Revision Date: 06/26/2012

Print Date: 07/06/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ACRAMITE®-50WS

Product Use Description: Miticide

Company: Chemtura Corporation
199 Benson Road
Middlebury, CT
06749
United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300
:

Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
(US) +1 866-430-2775

06/26/2012

MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

Form: powder

Colour: Light. beige to white

Odour: not significant

Hazard Summary

: May cause eye irritation.
Airborne dust particles may form explosive air-dust mixture.

OSHA Hazards

: COMBUSTIBLE DUST
MILD SKIN IRRITANT
MILD EYE IRRITANT

WHMIS Classification

: : This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

Potential Health Effects

Primary Routes of Entry : Skin contact



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Eye contact
Inhalation

Aggravated Medical Condition : None known.
Inhalation : Dust may cause irritation of the respiratory tract.

Skin : Causes mild skin irritation.
Contact with dust can cause mechanical irritation or drying of the skin.

Eyes : May cause eye irritation.

Ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Chronic Exposure : None known.

Symptoms of Overexposure : No information available.

Carcinogenicity:

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH Suspected human carcinogen
quartz (SiO₂) (Fr = 100%) 14808-60-7

Environmental Effects

Environmental Effects : Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
BIFENAZATE 149877-41-8	50 %
kaolin 1332-58-7	< 35 %
silica gel 112926-00-8	< 10 %
sodium 2-[methyloleoylamino]ethane-1-sulphonate 137-20-2	< 5 %
quartz (SiO ₂) (Fr = 100%) 14808-60-7	< 1 %



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SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : If breathed in, move person into fresh air.
Give oxygen or artificial respiration if needed.
Consult a physician after significant exposure.
- Skin contact : Remove contaminated clothing and shoes.
Wash off with warm water and soap.
If symptoms persist, call a physician.
- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Ingestion : Do NOT induce vomiting.
Rinse mouth with water.
Obtain medical attention.

Notes to physician

- Symptoms : No information available.
- Risks : No information available.
- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

- Flash point : Remarks: not applicable

Fire fighting

- Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Foam
- water fog
- Unsuitable extinguishing media : Water spray
- Further information : Do not discharge extinguishing waters into streams, rivers and lakes.

Protective equipment and precautions for firefighters

- Specific hazards during firefighting : No information available.
- Special protective equipment for firefighters : Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus (EN 133)



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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear suitable protective equipment.
Avoid contact with skin and eyes.
- Environmental precautions : Toxic to fish.
Do not allow uncontrolled discharge of product into the environment.
Do not contaminate ponds, waterways or ditches with chemical or used container.
- Methods for containment /
Methods for cleaning up : Remove all sources of ignition.
Avoid dust formation.
Clean up promptly by scoop or vacuum.
Do not create a powder cloud by using a brush or compressed air.
Keep in suitable, closed containers for disposal.
Ventilate the area.

SECTION 7. HANDLING AND STORAGE

- Handling
- Handling procedures : Handle and open container with care.
Use only in area provided with appropriate exhaust ventilation.
Avoid dust formation.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Avoid inhalation, ingestion and contact with skin and eyes.
Keep container closed when not in use.
- Storage**
- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Store at room temperature in the original container.
In case of occurrence of dust, risk of dust explosion.
- Other data : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	Further information
kaolin 1332-58-7	TWA ACGIH 2007-01-01	2 mg/m3	
	TWA OSHA P1	15 mg/m3	



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	2007-01-01		
	TWA OSHA P1 2007-01-01	5 mg/m3	
	TWA OSHA P0 1989-01-19	10 mg/m3	
	TWA OSHA P0 1989-01-19	5 mg/m3	
silica gel 112926-00-8	TWA OSHA P0 1989-01-19	6 mg/m3	
	TWA OSHA Z3 2007-01-01	20 million particles per cubic foot	
quartz (SiO ₂) (Fr = 100%) 14808-60-7	TWA ACGIH 2007-01-01	0.025 mg/m3	
	TWA OSHA P0 1989-01-19	0.1 mg/m3	
	TWA NIOSH REL 2005-09-01	0.05 mg/m3	

Engineering measures

Engineering measures : Use mechanical ventilation for general area control.
Ensure that extracted air cannot be returned to the workplace through the ventilation system.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection : Safety glasses with side-shields
Hand protection : Chemical resistant protective gloves



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- Skin and body protection : Long sleeved clothing
Remove and wash contaminated clothing before re-use.
- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Respirator with combination filter for vapour/particulate (EN 141).
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Ensure adequate ventilation, especially in confined areas.
Avoid contact with skin, eyes and clothing.
Do not breathe dust.
Wear suitable gloves and eye/face protection.
When using do not eat, drink or smoke.
Wash thoroughly after handling.
Keep working clothes separately.
Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : powder
Colour : Light.
beige
to
white

Odour : not significant

Safety data

Flash point : Note: not applicable

pH : 10.3

Vapour pressure : no data available

Water solubility : Note: slightly soluble

Solubility in other solvents : Note: partly soluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Extremes of temperature and direct sunlight.

Materials to avoid : Remarks: Oxidizing agents
Strong acids and strong bases

Hazardous decomposition products : Note: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
nitrogen oxides (NOx)



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Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 5,000 mg/kg
Species: rat

Acute inhalation toxicity : LC50: > 5.2 mg/l
Exposure time: 4 h
Species: rat

Acute dermal toxicity : LD50: > 5,000 mg/kg
Species: rabbit

Skin irritation : Species: rabbit
Result: Mild skin irritation
Remarks: May cause slight irritation.

Eye irritation : Species: rabbit
Result: Mild eye irritation

Sensitisation : Remarks: May cause sensitization of susceptible persons by skin contact.

Toxicology Assessment

CMR effects : Mutagenicity:
negative
Teratogenicity:
negative
Reproductive toxicity:
negative

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish
BIFENAZATE : LC50: 0.76 mg/l
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)
flow-through test Analytical monitoring: yes

LC50: 0.58 mg/l
Exposure time: 96 h



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Species: *Lepomis macrochirus* (Bluegill)
flow-through test Analytical monitoring: yes

LC50: 0.42 mg/l
Exposure time: 96 h

Species: *Cyprinodon variegatus* (sheepshead minnow)
flow-through test Analytical monitoring: yes

silica gel : LC50: > 10,000 mg/l
Exposure time: 96 h

Species: Fish
static test

Toxicity to daphnia and other aquatic invertebrates
BIFENAZATE : LC50: 0.5 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)
flow-through test Analytical monitoring: yes

kaolin : LC50: > 1,100 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)

Toxicity to algae
BIFENAZATE : EbC50: 0.89 mg/l
Exposure time: 96 h
Species: *Raphidocelis subcapitata* (freshwater green alga)
static test Analytical monitoring: yes
Method: OECD Test Guideline 201

ErC50: > 2.02 mg/l
Exposure time: 96 h
Species: *Raphidocelis subcapitata* (freshwater green alga)
static test Analytical monitoring: yes
Method: OECD Test Guideline 201

ErC50: 0.36 mg/l
Exposure time: 96 h
Species: *Skeletonema costatum* (marine diatom)
static test Analytical monitoring: yes
Method: OECD Test Guideline 201

ErC50: 1.4 mg/l
Exposure time: 96 h
Species: Algae
static test Analytical monitoring: yes
Method: OECD Test Guideline 201

ErC50: > 4.48 mg/l
Exposure time: 96 h
Species: Algae
static test Analytical monitoring: yes



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Method: OECD Test Guideline 201

Elimination information (persistence and degradability)

Bioaccumulation
BIFENAZATE : Bioconcentration factor (BCF): 83
Method: estimated

Mobility : Remarks:
no data available

Biodegradability
BIFENAZATE : Result: According to the results of tests of biodegradability this
product is not readily biodegradable.

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment
no data available
Additional ecological : No information on ecology is available.
information : Information refers to the main component.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Do not contaminate ponds, waterways or ditches with chemical or
used container.
Dispose of as special waste in compliance with local and national
regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3077
Description of the goods : Environmentally hazardous substances, solid, n.o.s.
(Bifenazate)
Class : 9
Packing group : III
ERG Code : 171

IATA

UN number : 3077
Description of the goods : Environmentally hazardous substance, solid, n.o.s.
(Bifenazate)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes



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IMDG

UN number : 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Bifenazate)
Class : 9
Packing group : III
EmS Number 1 : F-A
EmS Number 2 : S-F
Marine pollutant : yes
Bifenazate
Environmentally hazardous : yes
Bifenazate

Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road and/or rail.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Combustible dust, Mild skin irritant, Mild eye irritant
WHMIS Classification :

CERCLA Reportable :
Quantity
SARA 302 Reportable :
Quantity
SARA 311/312 Hazards : Acute Health Hazard

SARA 302 Reportable :
Quantity
SARA 304 Components : This material does not contain any components with a section 304 EHS RQ.

Massachusetts Right To Know Components : kaolin 1332-58-7ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances
Dust producing materials. Exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product.
silica gel 112926-00-8ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances



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quartz (SiO₂) (Fr = 100%) 14808-60-7 IARC international agency for research on cancer published monograph substances found to have at least sufficient evidence of carcinogenicity in animals. OSHA a. United states occupational safety and health administration substances, 29 cfr 1910.1000, sub part z. ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances Dust producing materials. Exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product.

Pennsylvania Right To Know Components

: BIFENAZATE 149877-41-8

kaolin 1332-58-7 ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances
Dust producing materials. Exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product.

silica gel 112926-00-8 ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances

Sodium polynaphthalene sulphonate 9084-06-4
sodium sulphate 7757-82-6 Toxic chemical release substances. 52 fr 21152 (6/4/87). Subject to SARA Title III.

New Jersey Right To Know Components

: BIFENAZATE 149877-41-8

kaolin 1332-58-7 ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances
Dust producing materials. Exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product.

silica gel 112926-00-8 ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances

Sodium polynaphthalene sulphonate 9084-06-4
sodium 2-[methyleoleylamino]ethane-1-sulphonate 137-20-2



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OSHA a. United states occupational safety and health administration substances, 29 cfr 1910.1000, sub part z.
ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances
Dust producing materials. Exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product.

California Prop. 65 Components

: WARNING! This product contains a chemical known to the State of California to cause cancer.

kaolin
quartz (SiO₂) (Fr = 100%)

1332-58-7 kaolin
14808-60-7 quartz
(SiO₂) (Fr = 100%)

SECTION 16. OTHER INFORMATION

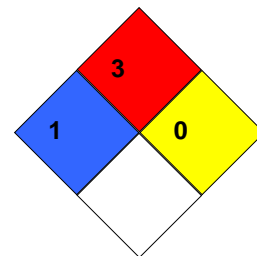
Further information

HMIS Classification

: Health hazard: 1
Flammability: 3
Physical hazards: 0

NFPA Classification

: Health hazard: 1
Fire Hazard: 3
Reactivity Hazard: 0





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Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

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.