



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Enviromite 480SC

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

Use of the Substance/Mixture : Plant protection agent, Acaricide

1.3 Details of the supplier of the safety data sheet

Company: Chemtura Manufacturing UK Limited
Tenax Road, Trafford Park
Manchester
United Kingdom
M17 1WT

Customer Service: +44 161 875 3800

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

Further information for the safety data sheet :
MSDSRequest@chemtura.com

1.4 Emergency telephone number

Emergency telephone number: +44 (0)208 762 8322
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

Irritant	R43: May cause sensitization by skin contact.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

Labelling (REGULATION (EC) No 1272/2008)

Labelling according to EC Directives ()

Hazard pictograms :



Irritant



Dangerous
for the
environment

R-phrase(s) : R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S24 Avoid contact with skin.
S37 Wear suitable gloves.
S57 Use appropriate container to avoid environmental contamination.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Hazardous components which must be listed on the label:

- 149877-41-8 Bifenazate

2.3 Other hazards

No information available.

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Acaricide

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Bifenazate	149877-41-8 442-820-5	Xi-N; R43-R50/53	Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Acute 1; H400	43.46
propane-1,2-diol	57-55-6 200-338-0			< 10

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

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For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

- If inhaled : Remove to fresh air.
Obtain medical attention.
- In case of skin contact : Remove contaminated clothing and shoes.
Wash off with warm water and soap.
If symptoms persist, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,
for at least 15 minutes.
If symptoms persist, call a physician.
- If swallowed : Do NOT induce vomiting.
Rinse mouth with water.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : sensitising effects
- Risks : sensitising effects

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : The first aid procedure should be established in consultation
with the doctor responsible for industrial medicine.

5. Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Extinguishing media - large fires
Alcohol-resistant foam
(on small fires)
Carbon dioxide (CO₂)
Dry chemical

- Unsuitable extinguishing media : Water spray jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire : Burning produces irritant fumes.

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

fighting

Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment. Avoid contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Large spills should be collected mechanically (remove by pumping) for disposal.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use with adequate ventilation. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep in a dry, cool place.

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

areas and containers

Other data : Stable under recommended storage conditions.

7.3 Specific end uses

Specific use(s) : Acaricide

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
propane-1,2-diol	57-55-6	TWA	150 ppm 474 mg/m ³	2005-04-06	GB EH40
		TWA	10 mg/m ³	2005-04-06	GB EH40

8.2 Exposure controls

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection : Chemical resistant protective gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Long sleeved clothing
Lab coat

Environmental exposure controls

General advice : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: off-white, to, tan
Odour	: characteristic
Odour Threshold	: No information available.
Flash point	: >104 °C
Ignition temperature	: No information available.
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Flammability (solid, gas)	: No information available.
Autoignition temperature	: No information available.
pH	: 7.0
Boiling point/boiling range	: Note: no data available
Vapour pressure	: similar to water
Density	: 1.104 g/cm ³
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: No information available.
Solubility in other solvents	: No information available.
Viscosity, dynamic	: 550 mPa.s at 25 °C
Relative vapour density	: No information available.
Evaporation rate	: No information available.

9.2 Other information

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

10. Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Strong acids and strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

: LD50: > 2,000 mg/kg
Species: rat

Acute oral toxicity
Bifenazate : LD50: > 5,000 mg/kg
Species: rat
Method: OECD Test Guideline 401

propane-1,2-diol : LD50: 20,000 mg/kg
Species: rat

LD50: 18,500 mg/kg
Species: rabbit

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

Acute inhalation toxicity : LC50: > 1.8 mg/l
Exposure time: 4 h
Species: rat

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

Acute dermal toxicity
Bifenazate : LD50: > 5,000 mg/kg
Species: rat
Method: OECD Test Guideline 402

propane-1,2-diol : LD50: 20,800 mg/kg
Species: rabbit

Skin corrosion/irritation

Skin irritation : Species: rabbit
Result: No skin irritation

Skin irritation
Bifenazate : Species: rabbit
Result: No skin irritation
Method: OECD Test Guideline 404
Exposure time: 4 h

Serious eye damage/eye irritation

Eye irritation : Species: rabbit
Result: No eye irritation

Eye irritation
Bifenazate : Species: rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
Exposure time: 48 h

Respiratory or skin sensitization

Sensitisation : Species: guinea pig
Classification: May cause sensitization by skin contact.

Sensitisation
Bifenazate : Maximisation Test
Species: guinea pig
Classification: May cause sensitization by skin contact.

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

Method: OECD Test Guideline 406

Germ cell mutagenicity

Bifenazate : Ames test
Result: negative

In Vitro mammalian Cell Gene Mutation Test

Result: negative

Chromosome aberration test in vitro

Result: negative

Genotoxicity in vivo

Bifenazate : Micronucleus test
Species: mouse
Result: negative

Mutagenicity Assessment

Remarks : negative

Carcinogenicity Assessment

Remarks : negative

Reproductive toxicity Assessment

Remarks : negative

Target Organ Systemic Toxicant - Repeated exposure

Bifenazate : Exposure routes: Oral
Target Organs: Blood
Remarks: Causes damage to organs through prolonged or repeated exposure.

Toxicology Assessment

12. Ecological information

12.1 Toxicity

Toxicity to fish : LC50: 1.4 mg/l
Exposure time: 96 h

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

Species: *Oncorhynchus mykiss* (rainbow trout)

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

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

Toxicity to daphnia and other
aquatic invertebrates.

: EC50: 1.4 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)

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

Toxicity to algae

: EC50: 1.3 mg/l
Exposure time: 72 h
Species: Algae

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

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

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
Method: OECD Test Guideline 201

12.2 Persistence and degradability

Biodegradability : Remarks:
no data available

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Mobility : Remarks:
no data available

12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

13. Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.
Do not dispose of waste into sewer.

14. Transport information

ADR

UN number : 3082
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.
(Bifenazate)
Transport hazard class(es) : 9
Packing group : III
Classification Code : M6
Hazard identification No : 90
Labels : 9
Tunnel restriction code : (E)
Environmentally hazardous : yes

IATA

UN number : 3082
Description of the goods : Environmentally hazardous substance, liquid, n.o.s.
(Bifenazate)
Class : 9
Packing group : III
Labels : 9
Packing instruction (cargo : 914
aircraft)
Environmentally hazardous : yes

Packing instruction : 914
(passenger aircraft)
Packing instruction : Y914
(passenger aircraft)

IMDG

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.
(Bifenazate)
Class : 9
Packing group : III
Labels : 9
EmS Number 1 : F-A
EmS Number 2 : S-F
Marine pollutant : yes
Bifenazate

RID

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.
(Bifenazate)
Transport hazard class(es) : 9
Packing group : III
Classification Code : M6
Hazard identification No : 90
Labels : 9
Environmentally hazardous : yes

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Candidate List of Substances of Very High Concern for Authorisation : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard Legislation : 96/82/EC Update: 2003
Dangerous for the environment
9b
Quantity 1: 200 t
Quantity 2: 500 t

Water contaminating class (Germany) : WGK 3 highly water endangering

Notification status



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

US.TSCA : Not On TSCA Inventory
DSL : This product contains the following components that are not on the Canadian DSL nor NDSL lists.
AICS : Not in compliance with the inventory
NZIoC : Not in compliance with the inventory
ENCS : Not in compliance with the inventory
KECI : Not in compliance with the inventory
PICCS : Not in compliance with the inventory
IECSC : Not in compliance with the inventory
CH INV : The formulation contains substances listed on the Swiss Inventory

15.2 Chemical Safety Assessment

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R43 May cause sensitization by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
H400 Very toxic to aquatic life.

Carechem24 International Worldwide Coverage - Chemtura Corporation

Emergency Phone Number

Europe:	All European Countries	+44 (0) 1235 239 670
Asia Pacific:	East / South East Asia – Regional Number	+65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Enviromite 480SC

Version 1.7

Revision Date 15.06.2011

Print Date 15.06.2011

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	India	+65 3158 1198
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Bangladesh	+65 3158 1200
<u>Middle East / Africa:</u>	Arabic speaking countries	+44 (0) 1235 239 671
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States / Canada	001866 928 0789
<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
	Mexico	+52 555 004 87 63

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