

# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1 Product identifier

Trade name : ADAMA MEFENOXAM PLUS

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

Use of the Sub-: Fungicide

stance/Mixture

1.3 Details of the supplier of the safety data sheet

: ADAMA South Africa (Pty) Ltd Company

> Ground Floor, Simeka House, The Vineyard Office Estate 99 Jip de Jager Drive

Bellville 7530

**Telephone** : +27 (0) 21 982 1460

E-mail address : sds@adama.com

1.4 Emergency telephone number

**Emergency telephone** : +27 (0) 82 446 8946

number +27 (0) 861 555 777

+27 (0) 982 1460

## **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Sub-category 1A H317: May cause an allergic skin reaction.

Carcinogenicity, Category 2 H351: Suspected of causing cancer.

Specific target organ toxicity - single ex-

posure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting

effects.



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word Warning

Hazard statements H315 Causes skin irritation.

> May cause an allergic skin reaction. H317 Causes serious eye irritation. H319

Harmful if inhaled. H332

May cause respiratory irritation. H335 Suspected of causing cancer. H351 H410

Very toxic to aquatic life with long lasting

effects.

Supplemental Hazard

Statements

: EUH401

To avoid risks to human health and the environment, comply with the instructions

for use.

Precautionary statements **Prevention:** 

> P201 Obtain special instructions before use. P261 Avoid breathing dust/ fume/ gas/ mist/ va-

> > pours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

> air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel un-

P308 + P313 IF exposed or concerned: Get medical ad-

vice/ attention.

Hazardous components which must be listed on the label: chlorothalonil (ISO)

1,2-benzisothiazol-3(2H)-one

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Mixtures

## **Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
chlorothalonil (ISO)	1897-45-6 217-588-1	Acute Tox. 2; H330 Eye Dam. 1; H318 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 30 - < 50
metalaxyl-M (ISO)	70630-17-0	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1 - < 3
1,2-benzisothiazol- 3(2H)-one	2634-33-5 220-120-9	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400	< 0.05

For explanation of abbreviations see section 16.

#### **SECTION 4: FIRST AID MEASURES**

## 4.1 Description of first aid measures

General advice : Have the product container, label or Safety Data Sheet with

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial respira-

tion.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

If swallowed : If swallowed, seek medical advice immediately and show this

container or label.

Do NOT induce vomiting.



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

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

Symptoms : No information available.

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

Treatment : There is no specific antidote available.

Treat symptomatically.

#### **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod-

ucts of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

# 5.3 Advice for firefighters

Special protective equipment

for firefighters

Wear full protective clothing and self-contained breathing ap-

paratus.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform

respective authorities.

# 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

#### 6.4 Reference to other sections

Refer to disposal considerations listed in section 13., Refer to protective measures listed in sections 7 and 8.

## **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

Advice on safe handling : No special protective measures against fire required.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal

feedingstuffs.

## 7.3 Specific end use(s)

Specific use(s) : For proper and safe use of this product, please refer to the

approval conditions laid down on the product label.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
chlorothalonil (ISO)	1897-45-6	TWA	0.1 mg/m3	Syngenta
metalaxyl-M (ISO)	70630-17-0	TWA	10 mg/m3	Syngenta

## 8.2 Exposure controls

# **Engineering measures**

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

If airborne mists or vapors are generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

## Personal protective equipment

Eye protection : Tightly fitting safety goggles

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Use eye protection according to EN 166.



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0.5 mm

Remarks : The choice of an appropriate glove does not only depend on

its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degra-

dation or chemical breakthrough.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374

derived from it.

Skin and body protection : Assess the exposure and select chemical resistant clothing

based on the potential for contact and the permeation / pene-

tration characteristics of the clothing material.

Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable

equipment (suits, aprons, sleeves, boots, etc.)

Wear as appropriate:

Dust impervious protective suit

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Suitable respiratory equipment: Respirator with a half face mask

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Use only respiratory protection equipment with CE-symbol

including four digit test number.

Filter type : Particulates type (P)

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek appro-

priate professional advice.

Personal protective equipment should be certified to appropri-

ate standards.



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : beige to grey

Odour : characteristic

pH : 5 - 9, Concentration: 1 % w/v

Flash point :  $>= 90 \, ^{\circ}\text{C}$ 

Density : 1.26 g/cm3 (20 °C)

Auto-ignition temperature : 440 °C

Viscosity

Viscosity, dynamic : 83.1 - 199 mPa.s (20 °C)

66.3 - 165 mPa.s (40 °C)

Explosive properties : Classification Code: Not explosive

Oxidizing properties : not oxidizing

9.2 Other information

Surface tension : 40.0 mN/m, 20 °C

## **SECTION 10: STABILITY AND REACTIVITY**

### 10.1 Reactivity

See section 10.3 "Possibility of hazardous reactions".

# 10.2 Chemical stability

The product is stable when used in normal conditions

# 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazardous reactions by normal handling and storage ac-

cording to provisions.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : No substances are known which lead to the formation of haz-

ardous substances or thermal reactions.

# 10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapors.



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

#### **Acute toxicity**

**Product:** 

Acute oral toxicity : LD50 (Rat, male): > 3,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

LD50 (Rat, female): > 2,000 - < 3,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.20 mg/l

Exposure time: 4 h

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Rat, male and female): > 4,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

**Components:** 

chlorothalonil (ISO):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 0.10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

metalaxyl-M (ISO):

Acute oral toxicity : LD50 (Rat, male): 953 mg/kg

LD50 (Rat, female): 375 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.29 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Highest attainable concentration

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

#### Skin corrosion/irritation

#### **Product:**

Species: Rabbit Result: Irritating to skin.

#### Components:

# chlorothalonil (ISO):

Species: Rabbit

Result: No skin irritation

# metalaxyl-M (ISO):

Species: Rabbit Result: No skin irritation

## 1,2-benzisothiazol-3(2H)-one:

Result: Irritating to skin.

# Serious eye damage/eye irritation

### **Product:**

Species: Rabbit

Result: Irritating to eyes.

#### Components:

#### chlorothalonil (ISO):

Species: Rabbit

Result: Risk of serious damage to eyes.

# metalaxyl-M (ISO):

Species: Rabbit

Result: Risk of serious damage to eyes.

## 1,2-benzisothiazol-3(2H)-one:

Result: Risk of serious damage to eyes.

## Respiratory or skin sensitisation

#### **Product:**

Test Type: Maximisation Test

Species: Guinea pig

Result: The product is a skin sensitiser, sub-category 1A.

#### **Components:**

### chlorothalonil (ISO):

Species: Guinea pig

Result: May cause sensitisation by skin contact.

Remarks: In very rare cases may cause an allergic response of the respiratory system.

## metalaxyl-M (ISO):

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

## 1,2-benzisothiazol-3(2H)-one:

Result: Probability or evidence of skin sensitisation in humans



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

# Germ cell mutagenicity

#### Components:

chlorothalonil (ISO):

Germ cell mutagenicity- As-

sessment

: Animal testing did not show any mutagenic effects.

metalaxyl-M (ISO):

Germ cell mutagenicity- As-

sessment

: Animal testing did not show any mutagenic effects.

### Carcinogenicity

# **Product:**

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

#### Components:

#### chlorothalonil (ISO):

Carcinogenicity - Assess-

ment

: Chlorothalonil causes kidney tumours in rats and mice via a non-gentoxic mode of action secondary to target organ toxicity., Limited evidence of carcinogenicity in animal studies

metalaxyl-M (ISO):

Carcinogenicity - Assess-

ment

: No evidence of carcinogenicity in animal studies.

#### Reproductive toxicity

#### **Components:**

# chlorothalonil (ISO):

Reproductive toxicity - As-

sessment

: No toxicity to reproduction

metalaxyl-M (ISO):

Reproductive toxicity - As-

sessment

: No toxicity to reproduction

#### STOT - single exposure

## **Product:**

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

#### **Components:**

# chlorothalonil (ISO):

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

## STOT - repeated exposure

## Components:

## metalaxyl-M (ISO):

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

#### Repeated dose toxicity

#### **Components:**

chlorothalonil (ISO):

Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated

exposure.

## **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1 Toxicity

**Product:** 

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.09 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.58 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 57

mg/l

Exposure time: 72 h

EbC50 (Pseudokirchneriella subcapitata (green algae)): 17

mg/i

Exposure time: 72 h

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Components:** 

chlorothalonil (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.039 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.07 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Navicula pelliculosa (Freshwater diatom)): 0.02 mg/l

Exposure time: 96 h

NOEC (Navicula pelliculosa (Freshwater diatom)): 0.0035 mg/l

End point: Growth rate Exposure time: 96 h

ErC50 (Skeletonema costatum (marine diatom)): 0.017 mg/l

Exposure time: 96 h

NOEC (Skeletonema costatum (marine diatom)): 0.012 mg/l

End point: Growth rate Exposure time: 96 h

M-Factor (Acute aquatic tox-

icity)

: 10

Page 11 of 16



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

Toxicity to fish (Chronic tox-

icity)

: NOEC: 0.003 mg/l Exposure time: 297 d

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other : NOEC: 0.035 mg/l aquatic invertebrates (Chron-

ic toxicity)

Exposure time: 21 d

Species: Daphnia magna (Water flea)

NOEC: 0.00083 mg/l Exposure time: 28 d

Species: Americamysis bahia (Mysid shrimp)

M-Factor (Chronic aquatic

toxicity)

: 10

metalaxyl-M (ISO):

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Toxicity to fish

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (algae)): 271 mg/l

Exposure time: 96 h

NOErC (Pseudokirchneriella subcapitata (algae)): 19.7 mg/l

Exposure time: 96 h

Toxicity to bacteria : EC50 (activated sewage sludge): > 100 mg/l

Exposure time: 3 h

Toxicity to fish (Chronic tox-

icity)

: NOEC: 50 mg/l

Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other

aquatic invertebrates (Chron-

: NOEC: 25 mg/l

Exposure time: 21 d

ic toxicity)

Species: Daphnia magna (Water flea)

1,2-benzisothiazol-3(2H)-one:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

12.2 Persistence and degradability

Components:

chlorothalonil (ISO):

Stability in water : Degradation half life: < 5 d (20 °C)

Remarks: Not persistent in water.

metalaxyl-M (ISO):

Biodegradability : Result: Not readily biodegradable.



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

Stability in water : Degradation half life: 22.4 - 47.5 d

Remarks: Not persistent in water.

12.3 Bioaccumulative potential

**Components:** 

chlorothalonil (ISO):

Bioaccumulation : Remarks: Chlorothalonil has low potential for bioaccumulation.

Partition coefficient: n-

octanol/water

: log Pow: 2.94 (25 °C)

metalaxyl-M (ISO):

Bioaccumulation : Remarks: Low bioaccumulation potential.

Partition coefficient: n-

octanol/water

: log Pow: 1.71 (25 °C)

12.4 Mobility in soil

Components:

chlorothalonil (ISO):

Distribution among environ-

mental compartments

: Remarks: Chlorothalonil has low to slight mobility in soil.

Stability in soil : Percentage dissipation: 50 % (DT50: 7 d)

Remarks: Not persistent in soil.

metalaxyl-M (ISO):

Distribution among environ-

mental compartments

: Remarks: Metalaxyl has a range from low to very high mobility

in soil depending on soil type.

Stability in soil : Percentage dissipation: 50 % (DT50: < 50 d)

Remarks: Not persistent in soil.

12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

**Components:** 

chlorothalonil (ISO):

Assessment : This substance is not considered to be very persistent and

very bioaccumulating (vPvB). This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

metalaxyl-M (ISO):

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Page 13 of 16



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

#### 12.6 Other adverse effects

**Product:** 

Additional ecological infor-

mation

: Remarks: Classification of the product is based on the sum-

mation of the concentrations of classified components.

**Components:** 

chlorothalonil (ISO):

Additional ecological infor-

mation

: Remarks: No data available

metalaxyl-M (ISO):

Additional ecological infor-

mation

: Remarks: No data available

1,2-benzisothiazol-3(2H)-one:

Additional ecological infor-

mation

: Remarks: No data available

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incinera-

tion.

If recycling is not practicable, dispose of in compliance with

local regulations.

Contaminated packaging : Empty remaining contents.

Triple rinse containers.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal. Do not re-use empty containers.

# **SECTION 14: TRANSPORT INFORMATION**

Land transport (ADR/RID)

**14.1 UN number:** UN 3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(CHLOROTHALONIL)

14.3 Transport hazard class(es):

14.4 Packing group: Labels:

**14.5 Environmental hazards :** Environmentally hazardous

9

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Tunnel restriction code: E

Page 14 of 16



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

#### Sea transport(IMDG)

**14.1 UN number:** UN 3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(CHLOROTHALONIL)

14.3 Transport hazard class(es): 9
14.4 Packing group: III
Labels: 9

**14.5 Environmental hazards :** Marine pollutant

# Air transport (IATA-DGR)

**14.1 UN number:** UN 3082

**14.2 UN proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (CHLOROTHALONIL)

14.3 Transport hazard class(es):914.4 Packing group:IIILabels:9

# 14.6 Special precautions for user

none

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15: REGULATORY INFORMATION**

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

Other regulations : Take note of Directive 98/24/EC on the protection of the

health and safety of workers from the risks related to chemical

agents at work.

# 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

# **SECTION 16: OTHER INFORMATION**

# **Full text of H-Statements**

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.

H330 : Fatal if inhaled.

H335 : May cause respiratory irritation. H351 : Suspected of causing cancer. H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity

Carc. : Carcinogenicity
Eye Dam. : Serious eye damage

Skin Irrit. : Skin irritation



# **ADAMA MEFENOXAM PLUS**

Version 1

Revision Date: 25.06.2019 Publish Date: 25.06.2019

Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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.

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