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Revised on / Version: 12.02.2015 / 0003  
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Valid from: 12.02.2015  
PDF print date: 13.02.2015  
Sniper

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

##### **Sniper**

**200 g/l Ethofumesate**

**150 g/l Phenmedipham**

**50 g/l Desmedipham**

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

##### **Relevant identified uses of the substance or mixture:**

Herbicide

##### **Uses advised against:**

Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Adama Agricultural Solutions UK Ltd Limited, Unit 15, Thatcham Business Village Colthrop Way, Thatcham Berkshire RG19 4LW, UK

Telephone: 01635 860555, Fax: 01635 861555  
ukenquiries@adama.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone

##### **Emergency information services / official advisory body:**

National Chemical Emergency Centre (UK): 01865 407333 (24 hours)

##### **Telephone number of the company in case of emergencies:**

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### 2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Aquatic Acute	1	H400-Very toxic to aquatic life.
Aquatic Chronic	1	H410-Very toxic to aquatic life with long lasting effects.

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## 2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

N, Dangerous for the environment, R50/53

### 2.2 Label elements

#### 2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)



Warning

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

P102-Keep out of reach of children.

P501-Dispose of contents/container to an approved waste disposal plant.

EUH208-Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

EUH401-To avoid risks to human health and the environment, comply with the instructions for use.

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

## SECTION 3: Composition/information on ingredients

Formulation:

Suspo-Emulsion

### 3.1 Substance

n.a.

### 3.2 Mixture

<b>Ethofumesate (ISO)</b>	
<b>Registration number (REACH)</b>	--
<b>Index</b>	607-314-00-2
<b>EINECS, ELINCS, NLP</b>	247-525-3

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<b>CAS</b>	CAS 26225-79-6
<b>content %</b>	10-<25
<b>Classification according to Directive 67/548/EEC</b>	Dangerous for the environment, N, R51 Dangerous for the environment, R53
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Aquatic Chronic 2, H411
<b>Phenmedipham</b>	
<b>Registration number (REACH)</b>	--
<b>Index</b>	616-106-00-0
<b>EINECS, ELINCS, NLP</b>	237-199-0
<b>CAS</b>	CAS 13684-63-4
<b>content %</b>	10-<25
<b>Classification according to Directive 67/548/EEC</b>	Dangerous for the environment, N, R50 Dangerous for the environment, R53
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
<b>Distillates (petroleum), hydrotreated light paraffinic</b>	
<b>Registration number (REACH)</b>	01-2119487077-29-XXXX
<b>Index</b>	649-468-00-3
<b>EINECS, ELINCS, NLP</b>	265-158-7
<b>CAS</b>	CAS 64742-55-8
<b>content %</b>	10-20
<b>Classification according to Directive 67/548/EEC</b>	---
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Asp. Tox. 1, H304
<b>Desmedipham</b>	
<b>Registration number (REACH)</b>	--
<b>Index</b>	616-113-00-9
<b>EINECS, ELINCS, NLP</b>	237-198-5
<b>CAS</b>	CAS 13684-56-5
<b>content %</b>	1-5
<b>Classification according to Directive 67/548/EEC</b>	Dangerous for the environment, N, R50 Dangerous for the environment, R53
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
<b>Tridecylalcoholethoxylatephosphate</b>	
<b>Registration number (REACH)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	-
<b>CAS</b>	CAS 9046-01-9
<b>content %</b>	1-2,5
<b>Classification according to Directive 67/548/EEC</b>	Irritant, Xi, R38 Irritant, Xi, R41 Dangerous for the environment, N, R51 Dangerous for the environment, R53



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<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
<b>Ethoxylated polyaryl phenol</b>	
<b>Registration number (REACH)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	-
<b>CAS</b>	CAS 99734-09-5
<b>content %</b>	0,1-2,5
<b>Classification according to Directive 67/548/EEC</b>	Dangerous for the environment, R52 Dangerous for the environment, R53
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Aquatic Chronic 3, H412
<b>Polyarylphenyl ether phosphate</b>	
<b>Registration number (REACH)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	-
<b>CAS</b>	CAS 90093-37-1
<b>content %</b>	0,1-2,5
<b>Classification according to Directive 67/548/EEC</b>	Irritant, Xi, R36
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Eye Irrit. 2, H319
<b>1,2-benzisothiazol-3(2H)-one</b>	
<b>Registration number (REACH)</b>	--
<b>Index</b>	613-088-00-6
<b>EINECS, ELINCS, NLP</b>	220-120-9
<b>CAS</b>	CAS 2634-33-5
<b>content %</b>	0,005-<0,05
<b>Classification according to Directive 67/548/EEC</b>	Harmful, Xn, R22 Irritant, Xi, R38 Irritant, Xi, R41 Sensitizing, R43 Dangerous for the environment, N, R50
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.  
The substances named in this section are given with their actual, appropriate classification!  
For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## SECTION 4: First aid measures

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## 4.1 Description of first aid measures

### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Keep Data Sheet available.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

n.c.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray/foam/CO<sub>2</sub>/dry extinguisher

#### Unsuitable extinguishing media

High volume water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of phosphorus

Oxides of sulphur

Oxides of nitrogen

Hydrogen chloride

Toxic gases

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

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## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping

## 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

## 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

## 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

# SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

## 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Observe regulations for keeping separated.

Under all circumstances prevent penetration into the soil.

Store at room temperature.

Do not store over 40°C.

## 7.3 Specific end use(s)

Herbicide

# SECTION 8: Exposure controls/personal protection

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## 8.1 Control parameters

GB	Chemical Name	Propane-1,2-diol	Content %:
	WEL-TWA: 150 ppm (474 mg/m <sup>3</sup> ) (total, vapour and particulates), 10 mg/m <sup>3</sup> (particulates)	WEL-STEL: ---	---
	BMGV: ---	Other information: ---	

GB WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Propane-1,2-diol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	168	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m <sup>3</sup>	
Consumer	Human - dermal	Long term, systemic effects	DNEL	213	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	50	mg/m <sup>3</sup>	
Consumer	Human - oral	Long term, systemic effects	DNEL	85	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	10	mg/m <sup>3</sup>	
	Environment - freshwater		PNEC	260	mg/l	
	Environment - marine		PNEC	26	mg/l	
	Environment - sewage treatment plant		PNEC	2000	mg/l	
	Environment - sediment, freshwater		PNEC	572	mg/kg	
	Environment - sediment, marine		PNEC	57,2	mg/kg	
	Environment - soil		PNEC	50	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	183	mg/l	

## 8.2 Exposure controls

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### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

Skin protection - Hand protection:

Universal protective gloves (plant protection)

Minimum layer thickness in mm:

0,4

Permeation time (penetration time) in minutes:

$\geq 480$

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	White
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	4,24 (1 %, CIPAC MT 75.3)
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	>100 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	1,087 g/cm <sup>3</sup> (20°C, CIPAC MT 3.3)
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Not determined
Partition coefficient (n-octanol/water):	3,59 (22°C, Phenmedipham, (pH 4) )
Partition coefficient (n-octanol/water):	3,39 (22°C, Desmedipham, (pH 3,9) )
Partition coefficient (n-octanol/water):	2,7 (20°C, Ethofumesate (ISO), (pH 6,4) )
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	845 mPas (40°C, CIPAC MT 192)
Explosive properties:	Product is not explosive.
Oxidising properties:	No

### 9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	36,6 mN/m (Regulation (EC) 440/2008 A.5. (SURFACE TENSION))
Solvents content:	Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

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#### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

#### 10.5 Incompatible materials

See also section 7.

Avoid contact with other chemicals.

Avoid contact with strong oxidizing agents.

#### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

### SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

Sniper						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Respiratory tract irritation:						n.d.a.
Repeated dose toxicity:						n.d.a.
Symptoms:						n.d.a.
Other information:						Classification based on toxicological analyses.

**Ethofumesate (ISO)**

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Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>7500	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by inhalation:	LD50	>160	mg/m <sup>3</sup> /4h	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Germ cell mutagenicity:						Negative
Carcinogenicity:	NOAEL	8,3	mg/kg/d			100ppm (oral)
Reproductive toxicity:	NOAEL	1000	mg/kg/d	Rat		
Reproductive toxicity:	NOAEL	1000	mg/kg/d	Rabbit		
Reproductive toxicity:	NOAEL	5	mg/kg/d	Rat		100ppm
Repeated dose toxicity:	NOAEL	28	d	Rat		200ppm - 10mg/kg/d (oral)
Repeated dose toxicity:	NOAEL	90	d	Rat		200ppm - 10mg/kg/d (oral)
Symptoms:						ataxia, breathing difficulties, headaches, gastrointestinal disturbances, dizziness, nausea
Other information:	ADI	0,4	mg/kg			

Phenmedipham						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>8000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>7	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Germ cell mutagenicity:						Negative
Carcinogenicity:	NOEL	100	mg/kg	Rat		(2 y)
Carcinogenicity:	NOEL	200	mg/kg	Rat		(90 d)
Reproductive toxicity:						Negative
Reproductive toxicity:		30	mg/kg bw/d	Rat		Negative
Other information:	ADI	0,03	mg/kg			

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**Distillates (petroleum), hydrotreated light paraffinic**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixed Dose Procedure)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:						Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:						Not irritant
Serious eye damage/irritation:						Mild irritant
Respiratory or skin sensitisation:						Not sensitising

**Desmedipham**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>4000	mg/kg			
Acute toxicity, by inhalation:	LC50	>7,4	mg/l/4h	Rat		
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Mild irritant

**Tridecylalcohol ethoxylate phosphate**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:						Irritant
Serious eye damage/irritation:						Intensively irritant

**Ethoxylated polyaryl phenol**

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant



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Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
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Polyarylphenyl ether phosphate						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Irritant

1,2-benzisothiazol-3(2H)-one						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	375	mg/kg	Rat		
Acute toxicity, by oral route:	ATE	500	mg/kg			
Acute toxicity, by dermal route:	LD50	4115	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	0,25	mg/l/4h	Rat		Dust, Does not conform with EU classification.
Skin corrosion/irritation:						Irritant
Serious eye damage/irritation:						Intensively irritant
Respiratory or skin sensitisation:				Guinea pig		Sensitizing (skin contact)
Germ cell mutagenicity:						Negative
Symptoms:						vomiting, headaches, gastrointestinal disturbances, nausea

Propane-1,2-diol						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	317,042	mg/l/2h	Rabbit		
Skin corrosion/irritation:				Rabbit	(Draize-Test)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig		Not sensitising
Respiratory or skin sensitisation:				Human being		Not sensitising



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Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Symptoms:						eyes, reddened, mucous membrane irritation, dizziness, watering eyes, nausea

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

<b>Sniper</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50		12,2	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	9,53	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	EbC50	72h	0,43	mg/l	Pseudokirchnerie lla subcapitata		
Toxicity to algae:	ErC50	72h	7,9	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:							n.d.a.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.

<b>Ethofumesate (ISO)</b>							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	22	mg/l	Leuciscus idus		
Toxicity to fish:	LC50	96h	26,5	mg/l	Oncorhynchus mykiss		
Toxicity to fish:	LC50	21d	18,8	mg/l	Oncorhynchus mykiss		
Toxicity to fish:	NOEC/NOEL		0,83	mg/l	Oncorhynchus mykiss		



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Toxicity to fish:	NOEC/NO EL		9,3	mg/l	Leuciscus idus		
Toxicity to fish:	NOEC/NO EL		9,7	mg/l	Oncorhynchus mykiss		
Toxicity to daphnia:	EC50	48h	28,1	mg/l	Daphnia magna		
Toxicity to daphnia:	NOEC/NO EL		1,0	mg/l			
Toxicity to daphnia:	NOEC/NO EL		13	mg/l			
Toxicity to daphnia:	LOEC/LO EL	21d	3,2	mg/l	Daphnia magna		
Toxicity to algae:	EC50	72h	10	mg/l	Scenedesmus subspicatus		
Persistence and degradability:			<70	%			
Persistence and degradability:	DT50		10-122	d			(lab)
Persistence and degradability:	DT50		31	h			Active substance non-resistant to UV light.
Persistence and degradability:	DT50		84-407	d			(field)
Mobility in soil:	Koc		203				Low

Phenmedipham							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	1,7	mg/l			
Toxicity to daphnia:	EC50	48h	0,41	mg/l			
Toxicity to algae:	EC50	72h	0,086	mg/l			
Persistence and degradability:							Product may hydrolyse. DT50 (22°C) 50 d (pH 5), 14,5 d (pH 7) 10 min (pH 9)
Bioaccumulative potential:	Log Pow		3,59				
Mobility in soil:	Koc		2400				pKa <0,1
Mobility in soil:	DT50		25				
Mobility in soil:	DT90		108				
Toxicity to insects:	LD50		> 23	µg/bee			oral
Toxicity to insects:	LD50		50	µg/bee			contact

Distillates (petroleum), hydrotreated light paraffinic							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	NOEC/NO EL	28d	>1000	mg/l	Oncorhynchus mykiss	QSAR	
Toxicity to fish:	LL50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	

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Toxicity to daphnia:	EC50	48h	>1000 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to daphnia:	NOEC/NO EL	21d	10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
Toxicity to algae:	EL50	72h	>100	mg/l	Pseudokirchnerie lla subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:							Not readily biodegradable, Mechanical precipitation possible. @20°C
Bioaccumulative potential:	Log Pow		>6				
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Water solubility:							Insoluble

<b>Desmedipham</b>							
<b>Toxicity/effect</b>	<b>Endpoint</b>	<b>Time</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Test method</b>	<b>Notes</b>
Toxicity to fish:	LC50	96h	0,25	mg/l	Lepomis macrochirus		
Toxicity to fish:	LC50	96h	0,26	mg/l	Oncorhynchus mykiss		
Toxicity to fish:	LC50	96h	20	mg/l	Cyprinus caprio		
Toxicity to daphnia:	EC50	48h	0,45	mg/l	Daphnia magna		
Toxicity to algae:	IC50	72h	0,061	mg/l			
Persistence and degradability:		28d	49,6	%			
Bioaccumulative potential:	BCF		148- 157				
Bioaccumulative potential:	Log Pow		3,39				
Toxicity to birds:	LD50	14d	>2000	mg/kg	Anas platyrhynchos		

<b>Tridecylalcoholethoxylatephosphate</b>							
<b>Toxicity/effect</b>	<b>Endpoint</b>	<b>Time</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Test method</b>	<b>Notes</b>
Toxicity to fish:	LC50	96h	10	mg/l	Brachydanio rerio		

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Persistence and degradability:			45	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
Persistence and degradability:			83	%		OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)	Not readily but inherent biodegradable.

**Ethoxylated polyaryl phenol**

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Persistence and degradability:		28d	16	%		OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)	
Persistence and degradability:		28d	8	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	

**Polyarylphenyl ether phosphate**

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio		
Persistence and degradability:		28d	0	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	Not biodegradable

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

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	1,3-1,6	mg/l	Salmo gairdneri		
Toxicity to fish:	LC50	96h	2,18	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to fish:	LC50	96h	3,4	mg/l	Lepomis macrochirus		



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Toxicity to daphnia:	EC50	48h	1,5-3,3	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	EC50	72h	0,15	mg/l	Chlorella vulgaris		
Toxicity to algae:	EC50	96h	0,055	mg/l	Pseudokirchneriella subcapitata		
Toxicity to algae:	ErC50	72h	0,11	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Bioaccumulative potential:	Log Pow		1,11				A notable biological accumulation potential is not to be expected (LogPow 1-3).
Toxicity to bacteria:	EC50	16h	0,4	mg/l	Pseudomonas putida		

<b>Propane-1,2-diol</b>							
<b>Toxicity/effect</b>	<b>Endpoint</b>	<b>Time</b>	<b>Value</b>	<b>Unit</b>	<b>Organism</b>	<b>Test method</b>	<b>Notes</b>
Toxicity to fish:	LC50	96h	>1000	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	EC50	72h	>1000	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	81	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
Persistence and degradability:		28d	87-92	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	
Bioaccumulative potential:	BCF		<100				
Results of PBT and vPvB assessment							n.a.
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge		



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Toxicity to bacteria:	IC50	30min	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	COD		1,585	mg/g			
Water solubility:							Mixable

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.  
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)  
02 01 08 agrochemical waste containing dangerous substances  
20 01 19 pesticides

Recommendation:

Pay attention to local and national official regulations  
E.g. suitable incineration plant.

Waste needs special observation measures (according to Waste Types Catalogue).

#### For contaminated packing material

Pay attention to local and national official regulations  
Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## SECTION 14: Transport information

### General statements

UN number: 3082

#### Transport by road/by rail (ADR/RID)

UN proper shipping name:

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DESMEDIPHAM, PHENMEDIPHAM)

Transport hazard class(es):

9

Packing group:

III

Classification code:

M6

LQ (ADR 2013):

5 L

LQ (ADR 2009):

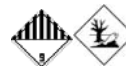
7

Environmental hazards:

environmentally hazardous

Tunnel restriction code:

E



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### Transport by sea (IMDG-code)

UN proper shipping name:  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DESMEDIPHAM, PHENMEDIPHAM)  
Transport hazard class(es): 9  
Packing group: III  
EmS: F-A, S-F  
Marine Pollutant: Yes  
Environmental hazards: environmentally hazardous



### Transport by air (IATA)

UN proper shipping name:  
Environmentally hazardous substance, liquid, n.o.s. (DESMEDIPHAM, PHENMEDIPHAM)  
Transport hazard class(es): 9  
Packing group: III  
Environmental hazards: environmentally hazardous



### Special precautions for user

Persons employed in transporting dangerous goods must be trained.  
All persons involved in transporting must observe safety regulations.  
Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.  
Minimum amount regulations have not been taken into account.  
Danger code and packing code on request.  
Comply with special provisions.

## SECTION 15: Regulatory information

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

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

For classification and labelling see Section 2.

Observe restrictions:

Comply with trade association/occupational health regulations.

Observe plant protection medium law.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections:

2, 3, 8, 11, 12

**Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):**

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<b>Classification in accordance with regulation (EC) No. 1272/2008 (CLP)</b>	<b>Evaluation method used</b>
Aquatic Acute 1, H400	Classification according to calculation procedure.
Aquatic Chronic 1, H410	Classification according to calculation procedure.

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

50 Very toxic to aquatic organisms.

51 Toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

22 Harmful if swallowed.

36 Irritating to eyes.

38 Irritating to skin.

41 Risk of serious damage to eyes.

43 May cause sensitization by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

52 Harmful to aquatic organisms.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aquatic Acute — Hazardous to the aquatic environment - acute

Asp. Tox. — Aspiration hazard

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage

Eye Irrit. — Eye irritation

Acute Tox. — Acute toxicity - oral

Skin Sens. — Skin sensitization

#### **Any abbreviations and acronyms used in this document:**

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

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AOX Adsorbable organic halogen compounds  
approx. approximately  
Art., Art. no. Article number  
ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)  
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
BCF Bioconcentration factor  
BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)  
BHT Butylhydroxytoluol (= 2,6-Di-*t*-butyl-4-methyl-phenol)  
BMGV Biological monitoring guidance value (EH40, UK)  
BOD Biochemical oxygen demand  
BSEF Bromine Science and Environmental Forum  
bw body weight  
CAS Chemical Abstracts Service  
CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids  
CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques  
CIPAC Collaborative International Pesticides Analytical Council  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
CMR carcinogenic, mutagenic, reproductive toxic  
COD Chemical oxygen demand  
CTFA Cosmetic, Toiletry, and Fragrance Association  
DMEL Derived Minimum Effect Level  
DNEL Derived No Effect Level  
DOC Dissolved organic carbon  
DT50 Dwell Time - 50% reduction of start concentration  
DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EC European Community  
ECHA European Chemicals Agency  
EEA European Economic Area  
EEC European Economic Community  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
EN European Norms  
EPA United States Environmental Protection Agency (United States of America)  
ERC Environmental Release Categories  
ES Exposure scenario  
etc. et cetera  
EU European Union  
EWC European Waste Catalogue  
Fax. Fax number  
gen. general  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
GWP Global warming potential  
HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
HGWP Halocarbon Global Warming Potential  
IARC International Agency for Research on Cancer

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IATA International Air Transport Association  
IBC Intermediate Bulk Container  
IBC (Code) International Bulk Chemical (Code)  
IC Inhibitory concentration  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCLID International Uniform Chemical Information Database  
LC lethal concentration  
LC50 lethal concentration 50 percent kill  
LCLo lowest published lethal concentration  
LD Lethal Dose of a chemical  
LD50 Lethal Dose, 50% kill  
LDLo Lethal Dose Low  
LOAEL Lowest Observed Adverse Effect Level  
LOEC Lowest Observed Effect Concentration  
LOEL Lowest Observed Effect Level  
LQ Limited Quantities  
MARPOL International Convention for the Prevention of Marine Pollution from Ships  
n.a. not applicable  
n.av. not available  
n.c. not checked  
n.d.a. no data available  
NIOSH National Institute of Occupational Safety and Health (United States of America)  
NOAEC No Observed Adverse Effective Concentration  
NOAEL No Observed Adverse Effect Level  
NOEC No Observed Effect Concentration  
NOEL No Observed Effect Level  
ODP Ozone Depletion Potential  
OECD Organisation for Economic Co-operation and Development  
org. organic  
PAH polycyclic aromatic hydrocarbon  
PBT persistent, bioaccumulative and toxic  
PC Chemical product category  
PE Polyethylene  
PNEC Predicted No Effect Concentration  
POCP Photochemical ozone creation potential  
ppm parts per million  
PROC Process category  
PTFE Polytetrafluorethylene  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
SADT Self-Accelerating Decomposition Temperature  
SAR Structure Activity Relationship  
SU Sector of use

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SVHC Substances of Very High Concern  
Tel. Telephone  
ThOD Theoretical oxygen demand  
TOC Total organic carbon  
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)  
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative  
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).  
WHO World Health Organization  
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.  
No responsibility.

These statements were made by:

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