

# SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

## RANMAN TOP

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

#### 1.1 Product identifier:

Product name : RANMAN TOP  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

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

##### 1.2.1 Relevant identified uses

Fungicide

##### 1.2.2 Uses advised against

No uses advised against known

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

##### Supplier of the safety data sheet

ISK Biosciences Europe N.V.  
Pegasus Park, De Kleetlaan 12B - box 9  
B-1831 Diegem, Belgium  
☎ +32 2 627 86 11  
✉ +32 2 627 86 00  
isk-msds@isk.be

#### 1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

##### 2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.

##### 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

Xi; R36 - Irritating to eyes.

N; R51-53 - Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)



Signal word

Warning

H-statements

H319

Causes serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.

P-statements

P280

Wear eye protection

P264

Wash hands thoroughly after handling.

P273

Avoid release to the environment.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/attention.

P501

Dispose of contents/container in accordance with local/regional/national/international regulation.

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## Supplemental information

EUH210

Safety data sheet available on request.

EUH401

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

## 2.3 Other hazards:

### CLP

No other hazards known

## SECTION 3: Composition/information on ingredients

### 3.1 Substances:

Not applicable

### 3.2 Mixtures:

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
cyazofamid	120116-88-3	10% < C < 20%	N; R50-53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(9)	Constituent
methylnaphthalenesulfonic acid/formaldehyde, copolymer, sodium salt	81065-51-2	C< 5 %	Xi; R41	Eye Dam. 1; H318	(1)	Constituent
propane-1,2-diol	57-55-6 200-338-0	5% < C < 10%			(2)	Constituent
polyalkyleneoxide modified heptamethyltrisiloxane	67674-67-3	5% < C < 15%	Xn; R20 Xi; R36 N; R51-53	Acute Tox. 4; H332 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	(1)(10)	Constituent
docusate sodium	577-11-7 209-406-4	C< 5 %	Xi; R38 - 41	Skin Irrit. 2; H315 Eye Dam. 1; H318	(1)	Constituent

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(9) M-factor, see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

#### General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

Not irritating.

##### After eye contact:

Irritation of the eye tissue.

##### After ingestion:

No effects known.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

#### 5.1.1 Suitable extinguishing media:

Polyvalent foam. BC powder. Carbon dioxide.

#### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide).

### 5.3 Advice for firefighters:

#### 5.3.1 Instructions:

Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 8.2

### 6.2 Environmental precautions:

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

### 6.3 Methods and material for containment and cleaning up:

Take up liquid spill into absorbent material, e.g.: sand. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4 Reference to other sections:

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1 Precautions for safe handling:

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Do not discharge the waste into the drain.

### 7.2 Conditions for safe storage, including any incompatibilities:

#### 7.2.1 Safe storage requirements:

Store in a dry area. Provide for a tub to collect spills. Meet the legal requirements.

#### 7.2.2 Keep away from:

Heat sources.

#### 7.2.3 Suitable packaging material:

Polyethylene.

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

The product will only be used as fungicide.

## SECTION 8: Exposure controls/personal protection

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## 8.1 Control parameters:

### 8.1.1 Occupational exposure

#### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

#### UK

Propane-1,2-diol particulates	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 mg/m <sup>3</sup>
Propane-1,2-diol total vapour and particulates	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	150 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	474 mg/m <sup>3</sup>

#### b) National biological limit values

If limit values are applicable and available these will be listed below.

### 8.1.2 Sampling methods

If applicable and available it will be listed below.

Propylene Glycol	NIOSH	5523
Propylene Glycol	OSHA	2051

### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

### 8.1.4 DNEL/PNEC values

#### DNEL - Workers

##### propane-1,2-diol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	168 mg/m <sup>3</sup>	
	Long-term local effects inhalation	10 mg/m <sup>3</sup>	

#### DNEL - General population

##### propane-1,2-diol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	20 mg/m <sup>3</sup>	
	Long-term local effects inhalation	10 mg/m <sup>3</sup>	

### 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

#### b) Hand protection:

Gloves.

- materials (good resistance)

Rubber, plastics.

#### c) Eye protection:

Safety glasses.

#### d) Skin protection:

Protective clothing.

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Physical form	Liquid
Odour	No data available on odour
Odour threshold	No data available
Colour	Brown

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Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Material presenting a fire hazard
Log Kow	No data available
Dynamic viscosity	0.16 Pa.s - 0.91 Pa.s ; 20 °C
Kinematic viscosity	Not determined
Melting point	No data available
Boiling point	No data available
Flash point	> 79 °C
Evaporation rate	ether ; No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	water ; soluble
Relative density	1.1 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	436 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	7 ; 1 %

## 9.2 Other information:

Surface tension	0.0222 N/m ; 25 °C
Absolute density	1081 kg/m <sup>3</sup> ; 20 °C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Substance has neutral reaction.

### 10.2 Chemical stability:

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

No data available.

### 10.4 Conditions to avoid:

Keep away from naked flames/heat.

### 10.5 Incompatible materials:

No data available.

### 10.6 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Test results

#### Acute toxicity

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 423	> 2000 mg/kg		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg		Rat (male/female)	Experimental value	
Inhalation	LC50	OECD 403	> 5.9 mg/l	4 h	Rat (male/female)	Experimental value	

##### cyazofamid

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		> 5000 mg/kg		Rat	Experimental value	
Dermal	LD50		> 2000 mg/kg		Rat	Experimental value	
Inhalation	LC50		> 5.5 mg/l	4 h	Rat	Experimental value	

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## propane-1,2-diol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		20000 mg/kg		Rat	Experimental value	
Dermal	LD50		22500 mg/kg		Rat	Experimental value	
Dermal	LD50		20800 mg/kg		Rabbit	Experimental value	

## docusate sodium

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		> 2000 mg/kg		Rat		
Dermal	LD50		> 10000 mg/kg		Rabbit		

Judgement is based on the relevant ingredients

### Conclusion

Not classified for acute toxicity

### Corrosion/irritation

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Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405			Rabbit	Experimental value	
Dermal	Not irritating	OECD 404	4 h		Rabbit	Experimental value	

#### cyazofamid

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating					Experimental value	
Skin	Not irritating					Experimental value	

Classification of the mixture is based on test data on the mixture as a whole

### Conclusion

Irritating to the eyes

Not classified as irritating to the skin

### Respiratory or skin sensitisation

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Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406			Guinea pig (female)	Experimental value	

#### cyazofamid

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing					Experimental value	

Judgement is based on the relevant ingredients

### Conclusion

Not classified as sensitizing for skin

### Specific target organ toxicity

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No (test)data on the mixture available

### Mutagenicity (in vitro)

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No (test)data on the mixture available

#### cyazofamid

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471			Experimental value

### Mutagenicity (in vivo)

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No (test)data on the mixture available

### Carcinogenicity

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No (test)data on the mixture available

## Reproductive toxicity

### RANMAN TOP

No (test)data on the mixture available

Judgement is based on the relevant ingredients

### Conclusion CMR

Not classified for reprotoxic or developmental toxicity

Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

## Toxicity other effects

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No (test)data on the mixture available

## Chronic effects from short and long-term exposure

No effects known.

## SECTION 12: Ecological information

### 12.1 Toxicity:

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	67.89 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value; GLP
Acute toxicity invertebrates	EC50	OECD 202	13.5 mg/l	48 h	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EyC50	OECD 201	2.05 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Yield
	ErC50	OECD 201	48.71 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Growth rate

#### cyazofamid

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		> 0.10 mg/l	96 h	Oncorhynchus mykiss			Experimental value
Acute toxicity invertebrates	EC50		> 0.14 mg/l	48 h	Daphnia magna			Experimental value
Toxicity algae and other aquatic plants	EbC50		0.025 mg/l	72 h	Selenastrum capricornutum			Experimental value; Biomass

#### propane-1,2-diol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	51600 mg/l	96 h	Oncorhynchus mykiss			Experimental value
Acute toxicity invertebrates	EC50		34400 mg/l	48 h	Daphnia magna			
Toxicity algae and other aquatic plants	EC50		92000 mg/l	72 h	Chlorella sp.			Toxicity test

#### docusate sodium

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		28 mg/l	96 h	Oncorhynchus mykiss			
Acute toxicity invertebrates	EC50		36 mg/l	48 h	Daphnia magna			

Classification of the mixture is based on test data on the mixture as a whole

### Conclusion

Harmful to fishes

Harmful to invertebrates (Daphnia)

Toxic to algae

Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability:

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cyazofamid

## Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
	9 day(s)		Experimental value

propane-1,2-diol

## Biodegradation water

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	≥ 70 %		Experimental value

## Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	0.83 day(s)	1.5x10 <sup>6</sup> /cm <sup>3</sup>	QSAR

docusate sodium

## Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	66.7 %	28 day(s)	Experimental value

## Conclusion

Contains readily biodegradable component(s)

## 12.3 Bioaccumulative potential:

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### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

cyazofamid

## BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		286		Oncorhynchus mykiss	Experimental value

### Log Kow

Method	Remark	Value	Temperature	Value determination
		3.2	24 - 25 °C	Practical experience/observation

methylnaphthalenesulfonic acid/formaldehyde, copolymer, sodium salt

### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

propane-1,2-diol

### Log Kow

Method	Remark	Value	Temperature	Value determination
Equivalent to OECD 107		-1.07	20.5 °C	Experimental value

polyalkyleneoxide modified heptamethyltrisiloxane

### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

docusate sodium

## BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		0.9 - 9.3		Cyprinus carpio	

### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

## Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

## 12.4 Mobility in soil:

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### (log) Koc

Parameter	Method	Value	Value determination
			No data available

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# RANMAN TOP

cyazofamid

(log) Koc

Parameter	Method	Value	Value determination
Koc		1338	Experimental value

## Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

## 12.5 Results of PBT and vPvB assessment:

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

## 12.6 Other adverse effects:

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#### Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

cyazofamid

#### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

propane-1,2-diol

#### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

#### Ground water

Ground water pollutant

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1 Waste treatment methods:

#### 13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

02 01 08\* (wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing: agrochemical waste containing dangerous substances).  
Hazardous waste according to Directive 2008/98/EC.

#### 13.1.2 Disposal methods

Remove to an incinerator for chlorinated waste materials with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Contains a component for which a prohibition exists against discharge into surface water.

#### 13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

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Special provisions	
Limited quantities	

## Rail (RID)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	
Limited quantities	

## Inland waterways (ADN)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
Classification code	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

Special provisions	
Limited quantities	

## Sea (IMDG/IMSBC)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
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14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	

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

Annex II of MARPOL 73/78	Not applicable, based on available data
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## Air (ICAO-TI/IATA-DGR)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
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14.4 Packing group:

Packing group	
Labels	

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# RANMAN TOP

## 14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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## 14.6 Special precautions for user:

Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

## SECTION 15: Regulatory information

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

#### European legislation:

Plant protection products - listed ingredient

Contains component(s) included in implementing Regulation (EU) No 540/2011

European drinking water standards (Directive 98/83/EC)

#### cyazofamid

Parameter	Parametric value	Note	Reference
Pesticides	0,1 µg/l		Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption.
Pesticides — Total	0,5 µg/l		Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption.

#### docusate sodium

Parameter	Parametric value	Note	Reference
Sodium	200 mg/l		Listed in Annex I, Part C, of Directive 98/83/EC on the quality of water intended for human consumption.

#### REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

The identified uses are not covered by restrictions of Annex XVII of Regulation (EC) No 1907/2006

#### National legislation The Netherlands

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Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 04
Waterbezwaarlijkheid	6

#### National legislation Germany

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WGK	2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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##### propane-1,2-diol

TA-Luft	5.2.5
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#### National legislation France

##### RANMAN TOP

No data available

#### National legislation Belgium

##### RANMAN TOP

No data available

#### Other relevant data

##### RANMAN TOP

No data available

### 15.2 Chemical safety assessment:

No chemical safety assessment is required.

## SECTION 16: Other information

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels

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Irritant



Dangerous for the environment

## R-phrases

- 36 Irritating to eyes  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

## S-phrases

- 02 Keep out of the reach of children  
13 Keep away from food, drink and animal feeding stuffs  
20/21 When using do not eat, drink or smoke  
23 Do not breathe vapour  
25 Avoid contact with eyes  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
37 Wear suitable gloves  
35 This material and its container must be disposed of in a safe way  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.  
SP 1 Do not contaminate water with the product or its container  
SPe 3 To protect non-target arthropods respect an unsprayed buffer zone of 5 m to non-agricultural land

## Full text of any R-phrases referred to under headings 2 and 3:

- R20 Harmful by inhalation  
R36 Irritating to eyes  
R38 Irritating to skin  
R41 Risk of serious damage to eyes  
R50 Very toxic to aquatic organisms  
R51 Toxic to aquatic organisms  
R53 May cause long-term adverse effects in the aquatic environment

## Full text of any H-statements referred to under headings 2 and 3:

- H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
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.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

- DSD Dangerous Substance Directive  
DPD Dangerous Preparation Directive  
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

## M-factor

cyazofamid	10		CLP Annex VI (ATP 1)
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## Specific concentration limits DSD

cyazofamid	$C \geq 2,5 \%$	N; R50-53	DSD Annex VI (ATP 1)
	$0,25 \% \leq C < 2,5 \%$	N; R51-53	DSD Annex VI (ATP 1)
	$0,025 \% \leq C < 0,25 \%$	R52-53	DSD Annex VI (ATP 1)

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