

SAFETY DATA SHEET

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

pyriofenone 300SC

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

1.1 Product identifier:

Product name : pyriofenone 300SC
Synonyms : IKF-309 300SC; KUSABI; KASURI
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
Carc.	category 2	H351: Suspected of causing cancer.
Aquatic Chronic	category 1	H410: Very toxic 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

Carc. Cat. 3; R40 - Limited evidence of a carcinogenic effect

N; R50-53 - Very 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

H-statements

H351

H410

P-statements

P270

P280

P308 + P313

P391

P501



Warning

Suspected of causing cancer.

Very toxic to aquatic life with long lasting effects.

Do not eat, drink or smoke when using this product.

Wear protective gloves.

IF exposed or concerned: Get medical advice/attention.

Collect spillage.

Dispose of contents/container to hazardous or special waste collection point.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)
Technische Schoolstraat 43 A, B-2440 Geel
<http://www.big.be>
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Product number: 51247

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134-15857-465-en

pyriofenone 300SC

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
pyriofenone technical	688046-61-9	30 %	Carc. Cat. 3; R40 N; R50-53	Carc. 2; H351 Aquatic Chronic 1; H410	(1)	Constituent
sulfonated aromatic polymer, sodium salt		< 5 %	Xi; R36/38	Eye Irrit. 2; H319 Skin Irrit. 2; H315	(1)	Polymer
propane-1,2-diol	57-55-6 200-338-0	< 10 %			(2)	Constituent
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9	< 1 %	Xn; R22 Xi; R38 - 41 R43 N; R50	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400	(1)(8)	Constituent

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

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

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 with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. 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:

Not irritating.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

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SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. ABC 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:

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. 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. 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. 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 strict hygiene. 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 cool area. Store in a dry area. Keep container in a well-ventilated place. Provide for a tub to collect spills. Keep only in the original container. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) bases, (strong) acids.

7.2.3 Suitable packaging material:

No data available

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

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

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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 ³
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 ³

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 ³	
	Long-term local effects inhalation	10 mg/m ³	

DNEL - General population

propane-1,2-diol

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

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. 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 strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:

High gas/vapour concentration: gas mask with filter type A.

b) Hand protection:

Gloves.

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	Viscous liquid
Odour	Odourless
Odour threshold	Not applicable
Colour	Beige
Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Non combustible
Log Kow	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available

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Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	< 0.1 hPa ; 20 °C
Solubility	water ; 1.56 mg/l ; 20 °C
Relative density	1.09 ; 20 °C
Decomposition temperature	>100 °C
Auto-ignition temperature	380 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

9.2 Other information:

Surface tension	0.035 N/m ; 20 °C
Absolute density	1090 kg/m ³ ; 20 °C

SECTION 10: Stability and reactivity

10.1 Reactivity:

No data available.

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:

Oxidizing agents, (strong) bases, (strong) acids.

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

pyriofenone 300SC

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	24 h	Rat (male/female)	Experimental value	
Inhalation	LC50	OECD 403	> 2.78 mg/l	4 h	Rat (male/female)	Experimental value	

pyriofenone technical

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	24 h	Rat (male/female)	Experimental value	
Inhalation	LC50	OECD 403	> 5.18 mg/l	4 h	Rat (male/female)	Experimental value	

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	

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		1020 mg/kg		Rat	Literature study	

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

Conclusion

Not classified for acute toxicity

Corrosion/irritation

pyriofenone 300SC

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

pyriofenone technical

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h		Rabbit	Experimental value	

sulfonated aromatic polymer, sodiumsalt

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating; category 2					Literature study	
Skin	Irritating; category 2					Literature study	

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

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage					Literature study	
Skin	Irritating					Literature study	

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

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Respiratory or skin sensitisation

pyriofenone 300SC

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

pyriofenone technical

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 429			Mouse	Experimental value	

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

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing					Literature study	

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

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

pyriofenone 300SC

No (test) data on the mixture available

pyriofenone technical

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	OECD 408	17.9 mg/kg bw/day			90 day(s)	Rat	Experimental value

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Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

pyriofenone 300SC

No (test) data on the mixture available

pyriofenone technical

Result	Method	Test substrate	Effect	Value determination
Negative	OECD 471	Bacteria (S.typhimurium)		Experimental value
Negative	OECD 473	CHL/IU cells		Experimental value

Mutagenicity (in vivo)

pyriofenone 300SC

No (test) data on the mixture available

pyriofenone technical

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474		Mouse (male/female)		Experimental value
Negative	OECD 486		Rat (male)		Experimental value

Carcinogenicity

pyriofenone 300SC

No (test) data on the mixture available

pyriofenone technical

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Oral	NOAEL	OECD 451	7.25 mg/kg bw/day - 9.13 mg/kg bw/day	2 year(s)	Rat (male/female)	Experimental value		

Reproductive toxicity

pyriofenone 300SC

No (test) data on the mixture available

pyriofenone technical

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 416	64.1 mg/kg bw/day		Rat			Experimental value
Effects on fertility	NOAEL	OECD 416	334 mg/kg bw/day		Rat			Experimental value

Classification is based on the relevant ingredients

Conclusion CMR

Suspected of causing cancer.

Not classified for reprotoxic or developmental toxicity

Not classified for mutagenic or genotoxic toxicity

Toxicity other effects

pyriofenone 300SC

No (test) data on the mixture available

Chronic effects from short and long-term exposure

pyriofenone 300SC

No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

pyriofenone 300SC

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	51.1 mg/l	96 h	Oncorhynchus mykiss	Semi-static system		Experimental value

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Acute toxicity invertebrates	EC50	OECD 202	117 mg/l	48 h	Daphnia magna	Semi-static system		Experimental value
Toxicity algae and other aquatic plants	ErC50	OECD 201	10.37 mg/l	72 h	Pseudokirchneriella subcapitata	Static system		Experimental value
	EyC50	OECD 201	1.93 mg/l	72 h	Pseudokirchneriella subcapitata	Static system		Experimental value
	EyC50	OECD 201	2.15 mg/l	72 h	Pseudokirchneriella subcapitata	Static system		Experimental value

pyriofenone technical

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 1.41 mg/l	96 h	Cyprinus carpio	Semi-static system		Experimental value
	LC50	OECD 203	> 1.44 mg/l	96 h	Oncorhynchus mykiss	Semi-static system		Experimental value
Acute toxicity invertebrates	EC50	OECD 202	> 1.55 mg/l	48 h	Daphnia magna	Semi-static system		Experimental value
	NOEC	OECD 202	1.55 mg/l		Daphnia magna	Semi-static system		Experimental value
Toxicity algae and other aquatic plants	ErC50	OECD 201	1.77 mg/l	0 - 72 h	Pseudokirchneriella subcapitata			Experimental value; Growth rate
	EyC50	OECD 201	0.422 mg/l	72 h	Pseudokirchneriella subcapitata			Experimental value; Yield
	EbC50	OECD 201	0.676 mg/l	72 h	Pseudokirchneriella subcapitata			Experimental value; Biomass
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	0.0899 mg/l	21 day(s)	Daphnia magna			Experimental value

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

Conclusion

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:

pyriofenone technical

Biodegradation water

Method	Value	Duration	Value determination
OECD 310: Ready biodegradability - CO2 in sealed vessels	0.6 %	28 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 ⁶ /cm ³	QSAR

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

pyriofenone 300SC

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

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pyriofenone technical

Log Kow

Method	Remark	Value	Temperature	Value determination
		3.2		Experimental value

sulfonated aromatic polymer, sodiumsalt

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

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

Log Kow

Method	Remark	Value	Temperature	Value determination
		1.3		Experimental value

Conclusion

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

12.4 Mobility in soil:

No (test) data on mobility of the components available

12.5 Results of PBT and vPvB assessment:

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

pyriofenone 300SC

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)

pyriofenone technical

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

Dissolve or mix with a combustible solvent. 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.

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

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Road (ADR)

14.1 UN number:

UN number	3082
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14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (pyriofenone technical)
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14.3 Transport hazard class(es):

Hazard identification number	90
Class	9
Classification code	M6

14.4 Packing group:

Packing group	III
Labels	9

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
------------------------------------------	-----

14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Rail (RID)

14.1 UN number:

UN number	3082
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14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (pyriofenone technical)
----------------------	-----------------------------------------------------------------------------

14.3 Transport hazard class(es):

Hazard identification number	90
Class	9
Classification code	M6

14.4 Packing group:

Packing group	III
Labels	9

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
------------------------------------------	-----

14.6 Special precautions for user:

Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1 UN number:

UN number	3082
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14.2 UN proper shipping name:

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (pyriofenone technical)
----------------------	-----------------------------------------------------------------------------

14.3 Transport hazard class(es):

Class	9
Classification code	M6

14.4 Packing group:

Packing group	III
Labels	9

14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
------------------------------------------	-----

14.6 Special precautions for user:

Special provisions	274
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Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG/IMSBC)

14.1 UN number:	
UN number	3082
14.2 UN proper shipping name:	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (pyriofenone technical)
14.3 Transport hazard class(es):	
Class	9
14.4 Packing group:	
Packing group	III
Labels	9
14.5 Environmental hazards:	
Marine pollutant	P
Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	
Special provisions	274
Special provisions	335
Special provisions	969
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	
Annex II of MARPOL 73/78	

Air (ICAO-TI/IATA-DGR)

14.1 UN number:	
UN number	3082
14.2 UN proper shipping name:	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (pyriofenone technical)
14.3 Transport hazard class(es):	
Class	9
14.4 Packing group:	
Packing group	III
Labels	9
14.5 Environmental hazards:	
Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	
Special provisions	A97
Special provisions	A158
Special provisions	A197
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	30 kg G

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0 %	

Plant protection products - listed ingredient

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

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

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-03-27

Revision number: 0202

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pyriofenone technical

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.

REACH Annex XVII - Restriction

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

pyriofenone 300SC

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

National legislation Germany

pyriofenone 300SC

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

TA-Luft	5.2.1
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National legislation France

pyriofenone 300SC

No data available

National legislation Belgium

pyriofenone 300SC

No data available

Other relevant data

pyriofenone 300SC

No data available

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

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

Labels



Dangerous for the environment

R-phrases

- 40 Limited evidence of a carcinogenic effect
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

- 35 This material and its container must be disposed of in a safe way
 36/37 Wear suitable protective clothing and gloves
 (46) (If swallowed, seek medical advice immediately and show this container or label)
 57 Use appropriate container to avoid environmental contamination

Additional recommendations

To avoid risks to man and the environment, comply with the instructions for use

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

- R22 Harmful if swallowed
 R36/38 Irritating to eyes and skin
 R38 Irritating to skin

Reason for revision: 2.2

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- R40 Limited evidence of a carcinogenic effect
- R41 Risk of serious damage to eyes
- R43 May cause sensitisation by skin contact
- R50 Very 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:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic 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

1,2-benzisothiazol-3(2H)-one	1	Acute	Customer information THOR (2014-10-27)
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Specific concentration limits CLP

1,2-benzisothiazol-3(2H)-one	C ≥ 0,05 %	Skin Sens. 1; H317	CLP Annex VI (ATP 0)
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Specific concentration limits DSD

1,2-benzisothiazol-3(2H)-one	C ≥ 0,05 %	R43	DSD Annex VI (ATP 0)
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The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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