

SAFETY DATA SHEET

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

Property 180SC

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

1.1 Product identifier:

Product name : Property 180SC
Synonyms : IKF-309 180SC; pyriofenone 180SC
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 2	H411: 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; 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

H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.

P-statements

P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves and protective clothing.

Property 180SC

P273	Avoid release to the environment.
P363	Wash contaminated clothing before reuse.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

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	C=18%	Carc. Cat. 3; R40 N; R50-53	Carc. 2; H351 Aquatic Chronic 1; H410	(1)	Constituent
sulfonated aromatic polymer, sodiumsalt		C<= 2.5%	Xi; R36/38	Eye Irrit. 2; H319 Skin Irrit. 2; H315	(1)	Polymer
propane-1,2-diol	57-55-6 200-338-0	C< 20%			(2)	Constituent
docusate sodium	577-11-7 209-406-4	C< 10%	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

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.

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

2 / 13

Property 180SC

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:

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

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

3 / 13

Property 180SC

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 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	

docusate sodium

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	44.1 mg/m ³	
	Long-term systemic effects dermal	31.3 mg/kg bw/day	

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	

docusate sodium

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	13 mg/m ³	
	Long-term systemic effects dermal	18.8 mg/kg bw/day	
	Long-term systemic effects oral	18.8 mg/kg bw/day	

PNEC

docusate sodium

Compartments	Value	Remark
Fresh water	0.0066 mg/l	
Marine water	0.00066 mg/l	
Aqua (intermittent releases)	0.066 mg/l	
STP	122 mg/l	
Fresh water sediment	0.653 mg/kg sediment dw	
Marine water sediment	0.0653 mg/kg sediment dw	
Soil	0.138 mg/kg soil dw	

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:

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

4 / 13

Property 180SC

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	Not applicable
Flammability	Non combustible
Log Kow	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available
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	1.07 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	326 °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	0.041 N/m ; 20 °C
Absolute density	1070 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

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

5 / 13

Property 180SC

Acute toxicity

Property 180SC

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	> 3.25 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	

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

Conclusion

- Low acute toxicity by the dermal route
- Low acute toxicity by the oral route
- Low acute toxicity by the inhalation route

Corrosion/irritation

Property 180SC

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	

docusate sodium

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405	72 h	1; 24; 48; 72 hours	Rabbit	Experimental value	Aqueous solution
Skin	Irritating	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	

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

Property 180SC

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
-------------------	--------	--------	---------------	------------------------	---------	---------------------	--------

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

6 / 13

Property 180SC

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	

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

Property 180SC

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

Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

Property 180SC

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

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)

Property 180SC

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

Property 180SC

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

Property 180SC

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

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

7 / 13

Property 180SC

Not classified for mutagenic or genotoxic toxicity

Toxicity other effects

Property 180SC

No (test) data on the mixture available

Chronic effects from short and long-term exposure

Property 180SC

No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

Property 180SC

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	128.7 mg/l	96 h	Oncorhynchus mykiss	Semi-static system		Experimental value
Acute toxicity invertebrates	EC50	OECD 202	171.3 mg/l	48 h	Daphnia magna	Semi-static system		Experimental value
Toxicity algae and other aquatic plants	ErC50	OECD 201	6.95 mg/l	72 h	Pseudokirchneria subcapitata	Static system		Experimental value
	EyC50	OECD 201	1.32 mg/l	72 h	Pseudokirchneria subcapitata	Static system		Experimental value
	EbC50	OECD 201	1.44 mg/l	72 h	Pseudokirchneria 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	Pseudokirchneria subcapitata			Experimental value; Growth rate
	EyC50	OECD 201	0.422 mg/l	72 h	Pseudokirchneria subcapitata			Experimental value; Yield
	EbC50	OECD 201	0.676 mg/l	72 h	Pseudokirchneria 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

docosate 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

Slightly harmful to fishes

Slightly harmful to invertebrates (Daphnia)

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

8 / 13

Property 180SC

Toxic to algae

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

docusate sodium

Biodegradation water

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

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

Property 180SC

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

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

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:

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:

Property 180SC

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)

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

9 / 13

Property 180SC

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

Road (ADR)

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):

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	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
-----------	------

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
------------------------------	----

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

10 / 13

Property 180SC

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	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
-----------	------

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
Special provisions	335
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
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	Not applicable, based on available data
--------------------------	---

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):

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

11 / 13

Property 180SC

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

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

Property 180SC

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

National legislation Germany

Property 180SC

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

propane-1,2-diol

TA-Luft	5.2.5
---------	-------

National legislation France

Property 180SC

No data available

National legislation Belgium

Property 180SC

No data available

Other relevant data

Property 180SC

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

Reason for revision: 2.2

Publication date: 2011-07-11

Date of revision: 2015-04-20

Revision number: 0203

Product number: 51246

12 / 13

Property 180SC



Dangerous for the environment

R-phrases

- 40 Limited evidence of a carcinogenic effect
51/53 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

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

- R36/38 Irritating to eyes and skin
R38 Irritating to skin
R40 Limited evidence of a carcinogenic effect
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.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long lasting effects.
H411 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)

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.