

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

1.1. Product identifier

Product form : Mixture
Trade name : Property 180 SC
Product code : IKF-309 180 SC, IBE 3083, IBE 4102
Type of product : SC (Suspension Concentrate)

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Belchim Crop Protection NV/SA
Technologielaan 7
1840 Londerzeel - Belgium
T +32 (0)52 30 09 06 - F +32 (0)52 30 11 35
info@belchim.com - www.belchim.com

1.4. Emergency telephone number

Emergency number : +32(0)14584545
24 H/7 days

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Carcinogenicity, Category 2 H351
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H351 - Suspected of causing cancer.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.
P202 - Do not handle until all safety precautions have been read and understood.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P281 - Use personal protective equipment as required.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
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.

EUH-statements :

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

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixtures

Name	Product identifier	Conc (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Pyriofenone	(CAS-No.) 688046-61-9	15 - 20	Carc. 2, H351 Aquatic Chronic 1, H410
Docusate sodium	(CAS-No.) 577-11-7 (EC-No.) 209-406-4	1 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318
Sulfonated aromatic polymer, sodium salt		1 - 3	Eye Irrit. 2, H319
Ethoxylated polyarylphenol	(CAS-No.) 99734-09-5	0.1 - 1.5	Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Consult a doctor/medical service if you feel unwell.
First-aid measures after inhalation	: Move the affected person to the fresh air. Keep victim warm and rested. Respiratory problems: consult a doctor/medical service. Obtain medical assistance.
First-aid measures after skin contact	: Wash skin with mild soap and water. If case of redness or irritation, call a doctor.
First-aid measures after eye contact	: Immediately rinse with plenty of water. Do not apply (chemical) neutralizing agents. Consult an eye specialist if necessary.
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show this container or label. Do not give an unconscious person anything to drink.

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

Symptoms/effects : Delayed adverse effects possible.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Polyvalent foam. Carbon dioxide. BC-powder. Water spray.
Unsuitable extinguishing media	: None to our knowledge.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic and corrosive vapours may be released. hydrogenchloride. Hydrofluoric Acid. Nitrous fumes. Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Firefighting instructions	: Dilute toxic gases with water spray. Use water moderately and if possible collect or contain it.
Protection during firefighting	: Full protective flameproof clothing. Gloves. Heat/fire exposure: compressed air/oxygen apparatus. Gas-tight suit.
Other information	: Do not dispose of fire-fighting water in the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Access forbidden to unauthorised personnel.

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

Protective equipment : Protective clothing. Protective gloves. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Prevent soil and water pollution. Do not allow into drains or water courses. Stop leak if safe to do so. Contain leaking substance, pump over in suitable containers. Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

For containment	: Take up liquid spill into absorbent material, e.g.: sand/earth. Shovel into suitable and closed container for disposal. Carefully collect remainder.
Methods for cleaning up	: Clean contaminated surfaces with an excess of water.
Other information	: Dispose of materials or solid residues at an authorized site. Wash clothing and equipment after handling.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Do not get in eyes, on skin, or on clothing. Do not discharge the waste into the drain. Keep away from naked flames/heat.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a dry, cool and well-ventilated place. Keep only in original container. Keep the container hermetically sealed. Keep away from heat and direct sunlight. Keep out of frost. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

Incompatible products

: Oxidizing agent. Strong bases. Strong acids.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Hand protection:

Protective gloves. Breakthrough time : refer to the recommendations of the supplier. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

Eye protection:

Safety glasses with side shields

Skin and body protection:

Complete protective clothing

Respiratory protection:

Not required for normal conditions of use. If the ventilation is suitable, it is not essential to wear respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous.
Colour	: Beige.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
pH solution	: 7.3 (1% w/v aqueous suspension) (20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 99 °C
Flash point	: No data available
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.09 (20°C)
Solubility	: No data available

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Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 20 - 40 mPa·s (40°C)
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

Surface tension	: 45,5 mN/m (0,18 g a.s./L (20°C))
Surface tension	: 38,5 mN/m (0,675 g a.s./L (20°C))

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Protect against frost. Protect from heat and direct sunlight.

10.5. Incompatible materials

Oxidizing agent. Strong bases. Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Property 180 SC	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 3.25 mg/l/4h

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: mild skin irritation (rabbit)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: moderate eye irritation
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Does not cause cutaneous sensitisation for guinea-pigs
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)

Pyriofenone (688046-61-9)	
NOAEL (animal/male, F0/P)	64.1 mg/kg bw/day (rat)
NOAEL (animal/male, F1)	64.1 mg/kg bw/day (rat)

STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

Pyriofenone (688046-61-9)	
NOAEL (oral, rat, 90 days)	17.9 mg/kg bodyweight/day

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)
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Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Property 180 SC	
LC50 fish 1	128.7 mg/l (96h - Oncorhynchus mykiss)
EC50 Daphnia 1	> 171.3 mg/l (48h - Daphnia magna)
ErC50 (algae)	6.95 mg/l (72h - Pseudokirchneriella subcapitata)

Pyriofenone (688046-61-9)	
NOEC chronic fish	1.27 mg/l (Pimephales promelas)
NOEC chronic crustacea	0.0899 mg/l (21 days - Daphnia magna)

12.2. Persistence and degradability

Pyriofenone (688046-61-9)	
Persistence and degradability	Not readily biodegradable.

Docusate sodium (577-11-7)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Pyriofenone (688046-61-9)	
BCF fish 1	160
Log Pow	3.2 (20 °C, 99.19%, pH 7.2-7.5)
Bioaccumulative potential	Low bioaccumulation potential.

Docusate sodium (577-11-7)	
Log Pow	2
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Pyriofenone (688046-61-9)	
Log Koc	2.8

Docusate sodium (577-11-7)	
Log Koc	2.979

12.5. Results of PBT and vPvB assessment

Property 180 SC	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: waste instructions.
Product/Packaging disposal recommendations	: Do not dispose of with domestic waste. Dispose of in accordance with relevant local regulations.
Additional information	: Do not re-use empty containers.
Ecology - waste materials	: Do not contaminate ground and surface water.

SECTION 14: Transport information


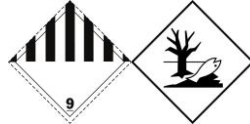
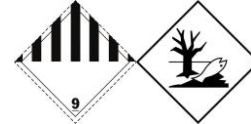
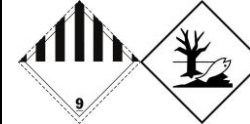
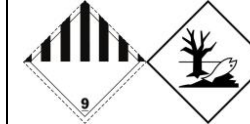
In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
Special provision(s) applied : 375	Special provision(s) applied : 969	Special provision(s) applied : A197	Special provision(s) applied : 375	Special provision(s) applied : 375

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.1. UN number				
3082	3082	3082	3082	3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriofenone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriofenone)	Environmentally hazardous substance, liquid, n.o.s. (Pyriofenone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriofenone)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriofenone)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriofenone), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriofenone), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Pyriofenone), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriofenone), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriofenone), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

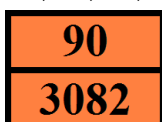
Overland transport

Special provisions (ADR)

: 274, 335, 375, 601

Orange plates

:



EAC code

: •3Z

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Classification code (ADN)

: M6

Number of blue cones/lights (ADN)

: 0

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Directive 2012/18/EU (SEVESO III)

Property 180 SC

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

15.1.2. National regulations

National regulation

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Not subject

SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
1.2	Main use category	Added	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures after inhalation	Modified	
4.1	First-aid measures general	Added	
4.2	Symptoms/effects	Added	
5.1	Unsuitable extinguishing media	Added	
5.1	Suitable extinguishing media	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
5.3	Firefighting instructions	Added	
5.3	Protection during firefighting	Modified	
5.3	Other information	Added	
6.1	General measures	Added	
6.1	Emergency procedures	Modified	
6.1	Protective equipment	Modified	
6.2	Environmental precautions	Modified	
6.3	For containment	Added	
6.3	Methods for cleaning up	Added	
6.3	Other information	Added	
7.1	Precautions for safe handling	Modified	
7.1	Hygiene measures	Added	
7.2	Storage conditions	Modified	
7.2	Incompatible products	Added	
8.2	Environmental exposure controls	Added	
8.2	Respiratory protection	Added	
8.2	Skin and body protection	Added	
8.2	Eye protection	Added	
8.2	Hand protection	Modified	
8.2	Appropriate engineering controls	Modified	
9.1	Viscosity, dynamic	Added	
9.1	Relative density	Modified	
9.1	pH solution	Added	

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9.1	Boiling point	Added	
9.1	Auto-ignition temperature	Modified	
9.2	Additional information	Added	
10.1	Reactivity	Modified	
10.2	Chemical stability	Modified	
10.4	Conditions to avoid	Modified	
10.5	Incompatible materials	Added	
11.1	Additional information	Added	
11.1	Reason for no classification	Added	
11.1	LD50 oral rat	Modified	
11.1	LD50 dermal rat	Modified	
12.1	ErC50 (algae)	Modified	
12.1	EC50 Daphnia 1	Modified	
12.1	LC50 fish 1	Modified	
13.1	Product/Packaging disposal recommendations	Added	
13.1	Additional information	Added	
13.1	Ecology - waste materials	Added	
15.1	Regulatory reference	Modified	
15.2	Chemical safety assessment	Modified	

Full text of H- and EUH-statements:

Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Carc. 2	H351	Calculation method
Aquatic Chronic 1	H410	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product