

Jenton®

A protectant fungicide with curative properties for use in winter wheat, winter barley, spring wheat, spring barley and oats, rye and triticale

An emulsifiable concentrate containing 100 g/litre (10.1% w/w) pyraclostrobin and 375 g/litre (37.9% w/w) fenpropimorph

Danger:

Harmful if inhaled.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging the unborn child.

May be fatal if swallowed and enters airways.

Very toxic to aquatic life with long lasting effects.

Obtain special instructions before use

Avoid breathing mist

Wear protective gloves and eye/face protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

IF ON SKIN: Wash with plenty of soap and water.

Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

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

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UN 3082
Packing Group III
Environmentally hazardous
substance, liquid, N.O.S.
(contains pyraclostrobin 10%,
fenpropimorph 38%)
Marine Pollutant

PCS No.: 02172



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BASF
The Chemical Company

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STATUTORY CONDITIONS RELATING TO USE**FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE, as directed below:**

<u>Crops</u>	<u>Maximum Individual dose</u>	<u>Maximum number of applications</u>	<u>Latest time of application</u>
Winter and spring wheat, rye and triticale	2.0 litres product per hectare	2	Up to and including flowering (anthesis) complete (GS 69)
Winter and spring barley Oats	2.0 litres product per hectare	2	Up to and including emergence of ear just complete (GS 59)

READ ALL PRECAUTIONS BEFORE USE.**PCS No.: 02172****CAUTIONS**

For professional use only

PRECAUTIONS

WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

AVOID ALL CONTACT WITH SKIN.

WASH HANDS AND EXPOSED SKIN before meals and after work.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

VERY TOXIC TO AQUATIC ORGANISMS, may cause long-term adverse effects in the aquatic environment. Do not contaminate surface waters or ditches with chemical or used container.

To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).

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

STORAGE

Store in a suitable pesticide store, keep dry and protect from frost.

DIRECTIONS FOR USE

Apply as a MEDIUM spray, as defined by BCPC.

Jenton is a fungicide with protectant and curative properties for disease control in winter and spring wheat, winter and spring barley, winter and spring oats, rye and triticale as summarised below:

	Winter Wheat	Spring Wheat	Winter Barley	Spring Barley	Winter Oats	Spring Oats	Rye	Triticale
Mildew	C	C	C	C	C	C	C	C
Yellow rust	C	C	C	C			C	C
Brown rust	C	C	C	C			C	C
Crown rust					C	C		
Net blotch			C	C				
<i>Rhynchosporium</i>			C	C			C	

C = Control

Yield response may be obtained in the absence of visual disease.

Time of Application

Apply Jenton at the start of foliar disease attack. A maximum of two applications can be made up to and including flowering just complete in winter and spring wheat, rye and triticale, and up to and including emergence of ear just complete in winter and spring barley, and winter and spring oats.

Rate of Application

Apply 2 litres Jenton in a minimum of 200 litres of water per hectare.

MIXING

Half fill the spray tank with clean water and start the agitation. SHAKE THE CONTAINER WELL before use and pour in the required amount of product. Rinse any empty containers thoroughly and add rinsings to the spray tank. Add the remainder of the water and continue agitation until spraying is completed.

When tank mixes are to be used, each product should be added separately to the spray tank.

MIXTURES WITH OTHER SPRAY CHEMICALS

Provided that all product recommendations are followed, JENTON is fully compatible with any of the following in two-way mix:

Ally
Corbel
Cheetah Super
Duplosan KV
Eagle

Moddus¹

Starane
Terpal
Topik

And in mix with:

Ally + New 5C Cycocel
Ally + Duplosan 1

¹ Some crop scorch or reduction in biomass may be noted with these mixes.

All tank mixes should be used immediately after mixing.

RESISTANCE MANAGEMENT

- A maximum of 2 applications of any strobilurin type (QoI) product can be made to any cereal crop.

IMPORTANT NOTES

1. Avoid spray drift on to neighbouring crops.
2. Wash equipment thoroughly after use.

The following does not form part of the product label under the UK Plant Protection Products Regulations or the Irish S.I. No.159 of 2012:

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.

ADDITIONAL PRODUCT SAFETY INFORMATION

This section does not form part of the product label under S.I. No. 159 of 2012.

Safety data sheet:

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

1.1. Product identifier

JENTON

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

Relevant identified uses: crop protection product, fungicide

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE
67056 Ludwigshafen
GERMANY

Contact address:

BASF Ireland Ltd.
Inchera Industrial Estate, Little Island
County Cork, REPUBLIC OF IRELAND

Telephone: +353 21 451-7100

E-mail address: product-safety-north@basf.com

1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Asp. Tox. 1

Acute Tox. 4 (Inhalation – vapour)

Acute Tox. 4 (oral)

Skin Corr./Irrit. 2

Eye Dam./Irrit. 2

Repr. 2 (unborn child)

Aquatic Acute 1

Aquatic Chronic 1

According to Directive 67/548/EEC or 1999/45/EC

Repr. Cat. 3

(as in Annex I of Directive 67/548/EEC)

Possible Hazards:

Harmful by inhalation and if swallowed. Irritating to eyes and skin.

Possible risk of harm to the unborn child.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System (GHS) in accordance with IE regulations.

Pictogram:

Signal Word: Danger



Hazard Statement:

H332	Harmful if inhaled.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361D	Suspected of damaging the unborn child.
H304	May be fatal if swallowed and enters airways.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary Statement:

P102 Keep out of reach of children.

Precautionary Statements (Prevention):

P201	Obtain special instructions before use.
P261c	Avoid breathing mist.
P280f	Wear protective gloves and eye/face protection.
P264	Wash with plenty of water and soap thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.

Precautionary Statements (Response):

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P361	Remove/take off immediately all contaminated clothing.
P391	Collect spillage.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P330	Rinse mouth.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501.1 Dispose of contents/container in accordance with local regulations.

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: FENPROPIMORPH, PYRACLOSTROBIN

According to Directive 67/548/EEC or 1999/45/EC

Classification/labelling in accordance with Irish regulations.

Hazard symbol(s)

Xn Harmful.



N Dangerous for the environment.

R-phrase(s)

R20/22 Harmful by inhalation and if swallowed.

R36/38 Irritating to eyes and skin.

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S24/25 Avoid contact with skin and eyes.

S35 This material and its container must be disposed of in a safe way.

S36/37 Wear suitable protective clothing and gloves.

S51 Use only in well-ventilated areas.

S57 Use appropriate container to avoid environmental contamination.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Hazard determining component(s) for labelling: FENPROPIMORPH, PYRACLOSTROBIN

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

See section 12 – Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

crop protection product, fungicide, Emulsifiable concentrate (EC)

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

fenpropimorph; cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine
Content (W/W): 37.9 %
CAS Number: 67564-91-4
EC-Number: 266-719-9

Acute Tox. 4 (oral)
Skin Corr./Irrit. 2
Repr. 2 (unborn child)
Aquatic Chronic 2
H302, H315, H361d, H411

pyraclostrobin (ISO); methyl N-2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl](N-methoxy) carbamate

Content (W/W): 10.1 %
CAS Number: 175013-18-0
INDEX-Number: 613-272-00-6

Acute Tox. 3 (Inhalation – mist)
Skin Corr./Irrit. 2
STOT SE 3 (irr. to respiratory syst.)
Aquatic Acute 1
Aquatic Chronic 1
M-factor acute: 100
M-factor chronic: 10
H315, H331, H335, H400, H410

solvent naphtha

Content (W/W): < 40 %
CAS Number: 64742-94-5
REACH registration number: 01-2119451097-39

Asp. Tox. 4
Aquatic Chronic 2
H411, H304, EUH066

fatty alcohol ethoxylate

Content (W/W): < 25 %
CAS Number: 68002-96-0

Acute Tox. 2 (Inhalation – mist)
Aquatic Acute 1
H330, H400

Docusate sodium

Content (W/W): < 5 %
CAS Number: 577-11-7
EC-Number: 209-406-4
REACH registration number: 01-2119491296-29

Skin Corr./Irrit. 2
Eye Dam./Irrit. 1
H318, H315

isotridecanoethoxylate, polymer; Starting materials listed in EINECS

Content (W/W): < 5 %

Acute Tox. 4 (oral)
Eye Dam./Irrit. 1
H318, H302

naphthalene

Content (W/W): < 0.5 %
CAS Number: 91-20-3
EC-Number: 202-049-5
INDEX-Number: 601-052-00-2

Acute Tox. 4 (oral)
Carc. 2
Aquatic Acute 1
Aquatic Chronic 1
M-factor acute: 1
M-factor chronic: 1
H302, H351, H400, H410

Hazardous ingredients

according to Directive 1999/45/EC

fenpropimorph; cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine

Content (W/W): 37.9 %
CAS Number: 67564-91-4
EC-Number: 266-719-9
Hazard symbol(s): Xn, N
R-phrases(s): 22, 38, 51/53, 63
Repr. Cat. 3

pyraclostrobin (ISO); methyl N-[2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxyethyl]phenyl](N-methoxy) carbamate

Content (W/W): 10.1 %
CAS Number: 175013-18-0
INDEX-Number: 613-272-00-6
Hazard symbol(s): T, N
R-phrases(s): 23, 37/38, 50/53

solvent naphtha

Content (W/W): < 40 %
CAS Number: 64742-94-5
REACH registration number: 01-2119451097-39
Hazard symbol(s): Xn, N
R-phrases(s): 65, 66, 51/53

fatty alcohol ethoxylate

Content (W/W): < 25 %
CAS Number: 68002-96-0
Hazard symbol(s): T, N
R-phrases(s): 23, 50

Docusate sodium

Content (W/W): < 5 %
CAS Number: 577-11-7
EC-Number: 209-406-4
REACH registration number: 01-2119491296-29
Hazard symbol(s): Xi
R-phrases(s): 38, 41

isotridecanoethoxylate, polymer; Starting materials listed in EINECS

Content (W/W): < 5 %
Hazard symbol(s): Xn
R-phrases(s): 22, 41

naphthalene

Content (W/W): < 0.5 %
CAS Number: 91-20-3
EC-Number: 202-049-5
INDEX-Number: 601-052-00-2
Hazard symbol(s): Xn, N
R-phrases(s): 22, 40, 50/53
Carc. Cat. 3

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:
Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.. Further important symptoms and effects are so far not known.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
water spray, foam, carbon dioxide, dry powder

5.2. Special hazards arising from the substance or mixture

carbon monoxide, Carbon dioxide, hydrogen chloride, nitrogen oxides, organochloric compounds
The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

6.2. Environmental precautions

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environmental Protection Agency if it enters surface or ground waters. Keep people and animals away.

6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.
Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Cleaning operations should be carried out only while wearing breathing apparatus. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion: Vapours may form ignitable mixture with air. Prevent electrostatic charge – sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: 0 °C

The packed product must be protected from temperatures below the indicated one. Protect from temperatures above: 40 °C

The packed product must be protected against exceeding the indicated temperature.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

91-20-3: naphthalene

TWA value 50 mg/m³ ; 10 ppm (OEL (IE))

STEL value 75 mg/m³ ; 15 ppm (OEL (IE))

STEL value 75 mg/m³ ; 15 ppm (OEL (IE))

Indicative OELV

TWA value 50 mg/m³ ; 10 ppm (OEL (IE))

Indicative OELV

STEL value 75 mg/m³ ; 15 ppm (OEL (IE))

Indicative OELV

TWA value 50 mg/m³ ; 10 ppm (OEL (IE))

Indicative OELV

Refer to the current schedule of occupational exposure standards published by the Irish HSA. For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

8.2. Exposure controls

Personal protective equipment

Respiratory protection: Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection: Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form: liquid
Colour: orange
Odour: aromatic, moderate odour
Odour threshold: Not determined since harmful by inhalation.
pH value: approx. 7 – 9 (pH Meter)
(1 % (m), 20 °C)
crystallization temperature: < -20 °C (measured)
Boiling range: approx. 244 – 292 °C
Flash point: Information applies to the solvent. (Directive 92/69/EEC, A.9)
109 °C
Evaporation rate: not applicable
Flammability: Product is combustible.
Lower explosion limit: 0.6 % (V)
Information applies to the solvent.
Upper explosion limit: 7 % (V)
Information applies to the solvent.
Ignition temperature: 340 °C
Vapour pressure: approx. 0.003 kPa
(20 °C)
Information applies to the solvent.
Relative vapour density (air): not determined
Solubility in water: emulsifiable
Information on: pyraclostrobin (ISO); methyl N-[2-[1-(4-chlorophenyl)-1H-pyrazol-3- yloxy)methyl]phenyl](N-methoxy)carbamate
Partitioning coefficient n-octanol/water (log Kow): 3.99
(20 °C)

Thermal decomposition: 115 °C, 60 kJ/kg
(onset temperature)
325 °C, 40 kJ/kg
(onset temperature)
Viscosity, dynamic: approx. 49 mPa.s (OECD 114)
(20 °C, 100 1/s)
Viscosity, kinematic: 20.4 mm²/s (OECD 114)
(40 °C)
Explosion hazard: Based on the chemical structure
there is no indicating of explosive properties.
Fire promoting properties: Based on its structural properties the
product is not classified as oxidizing.

9.2. Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

See MSDS section 7 – Handling and storage.

10.5. Incompatible materials

Substances to avoid: strong oxidizing agents, strong bases, strong acids

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD₅₀ rat (oral): > 500 – < 2,000 mg/kg (OECD Guideline 423)

LC₅₀ rat (by inhalation): approx. 2.0 mg/l 4 h (OECD Guideline 403) An aerosol was tested.

LD₅₀ rat (dermal): > 4,000 mg/kg (OECD Guideline 402) No mortality was observed.

Irritation

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation rabbit: Irritant. (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: naphthalene

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was mutagenic in a mammalian cell culture test system. The substance was not mutagenic in a test with mammals. Literature data.

Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Information on: naphthalene

Assessment of carcinogenicity:

In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed. EU-classification The substance was classified as a group 3 carcinogen by the German MAK-Commission (substances for which a suspicion of a carcinogenic potential exists). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: fenpropimorph; cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine

Assessment of teratogenicity:

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: fenpropimorph; cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

Information on: pyraclostrobin (ISO); methyl N-[2-[1-(4-chlorophenyl)-1H-pyrazol-3- yloxy)methyl] phenyl](N-methoxy)carbamate
Assessment of repeated dose toxicity:
After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.

Aspiration hazard

May also damage the lung at swallowing (aspiration hazard).

Other relevant toxicity information

Misuse can be harmful to health.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity: Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to fish:

LC₅₀ (96 h) 0.071 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

Aquatic invertebrates:

EC₅₀ (48 h) 0.2 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC₅₀ (72 h) 2.1 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O): The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pyraclostrobin (ISO); methyl N-[2-[1-(4-chlorophenyl)-1H-pyrazol-3- yloxy)methyl] phenyl](N-methoxy)carbamate

Assessment biodegradation and elimination (H₂O): Not readily biodegradable (by OECD criteria).

Information on: fenpropimorph; cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine

Assessment biodegradation and elimination (H₂O): Not readily biodegradable (by OECD criteria).

12.3. Bioaccumulative potential

Assessment bioaccumulation potential: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pyraclostrobin (ISO); methyl N-[2-[1-(4-chlorophenyl)-1H-pyrazol-3- yloxy)methyl] phenyl](N-methoxy)carbamate

Bioaccumulation potential:

Bioconcentration factor: 379 – 507, *Oncorhynchus mykiss* (OECD-Guideline 305) Accumulation in organisms is not to be expected.

Information on: fenpropimorph; cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine

Bioaccumulation potential:

Bioconcentration factor: 1,169 – 1,220, *Oncorhynchus mykiss* (OECD-Guideline 305) Significant accumulation in organisms is not to be expected.

12.4. Mobility in soil

Assessment transport between environmental compartments: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pyraclostrobin (ISO); methyl N-[2-[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxymethyl]phenyl](N-methoxy)carbamate

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: fenpropimorph; cis-4-[3-(p-tert-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7. Additional information

Other ecotoxicological advice: Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14: Transport Information

Land transport

ADR

UN number

UN proper shipping name:

Transport hazard class(es):

Packing group:

Environmental hazards:

Special precautions for user:

UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains PYRACLOSTROBIN, FENPROPIIMORPH)

9, EHSM

III

yes

Tunnel code: E

RID

UN number	UN3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PYRACLOSTROBIN, FENPROPIIMORPH)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	yes
Special precautions for user:	None known

Inland waterway transport

ADN

UN number	UN3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PYRACLOSTROBIN, FENPROPIIMORPH)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	yes
Special precautions for user:	None known
Transport in inland waterway vessel:	Not evaluated

Sea transport

IMDG

UN number:	UN 3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PYRACLOSTROBIN, FENPROPIIMORPH)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	yes
Marine pollutant:	YES
Special precautions for user:	None known

Air transport

IATA/ICAO

UN number:	UN 3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PYRACLOSTROBIN, FENPROPIIMORPH)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	yes
Special precautions for user:	None known

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

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

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

This product may be subject to the Seveso II Directive and amendments if specific threshold tonnages are exceeded.

For further medical advice Doctors should contact the National Poisons Information Centre at Beaumont Hospital, Dublin.

15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

Xn Harmful.	
N	Dangerous for the environment.
T	Toxic.
Xi	Irritant.
22	Harmful if swallowed.
38	Irritating to skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
63	Possible risk of harm to the unborn child.
23	Toxic by inhalation.
37/38	Irritating to respiratory system and skin.

50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
50	Very toxic to aquatic organisms.
41	Risk of serious damage to eyes.
40	Limited evidence of a carcinogenic effect.
Asp. Tox.	Aspiration hazard
Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Repr.	Reproductive toxicity
Aquatic Acute	Hazardous to the aquatic environment – acute
Aquatic Chronic	Hazardous to the aquatic environment – chronic STOT SE Specific target organ toxicity — single exposure
Carc.	Carcinogenicity
Repr. Cat. 3	Reprotoxic substances (fertility or development) Category 3: Substances which cause concern for humans owing to possible developmental toxic effects or substances which cause concern for human fertility.
Carc. Cat. 3	Carcinogenic substances Category 3: Substances which cause concern for man owing to possible carcinogenic effects.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410 V	Very toxic to aquatic life with long lasting effects.
H304	May be fatal if swallowed and enters airways.
EUH066	Repeated exposure may cause skin dryness or cracking.
H330	Fatal if inhaled.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

(Version: 3.0)