

Safety data sheet

Page: 1/18

BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 21.12.2015 Product: ABACUS ADVANCE Version: 1.0

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

1. Identification

Product identifier

ABACUS ADVANCE

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

Relevant identified uses: crop protection product, fungicide

Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

Emergency telephone number

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

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Acute Tox. 3 (oral) Acute Tox. 4 (Inhalation - mist) Skin Corr./Irrit. 3 Skin Sens. 1B

Date / Revised: 21.12.2015

Product: ABACUS ADVANCE

Version: 1.0

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

Carc. 2

Repr. 2 (fertility) Repr. 2 (unborn child) Aquatic Acute 1 Aquatic Chronic 1

For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H316	Causes mild skin irritation.
H332	Harmful if inhaled.
H301	Toxic if swallowed.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Stateme	ents (Prevention):
P280	Wear protective gloves/clothing.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe mist or vapour.
P202	Do not handle until all safety precautions have been read and understood.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):

Date / Revised: 21.12.2015

Version: 1.0

Product: ABACUS ADVANCE

(ID no. 30581163/SDS_CPA_00/EN)

Date of p	orint :	31.0	1.2	017
-----------	---------	------	-----	-----

P310	Immediately call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P301 + P330	IF SWALLOWED: rinse mouth.
P391	Collect spillage.
P362 + P364 P332 + P313	Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

Precautionary Statements (Storage):

P405

Store locked up.

Precautionary Statements (Disposal):

P501

Dispose of contents/container to hazardous or special waste collection

point.

According to UN GHS criteria

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

Other hazards

According to UN GHS criteria

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.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Chemical nature

crop protection product, fungicide, Suspo-emulsion (SE)

Hazardous ingredients (GHS)

According to UN GHS criteria

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

Date / Revised: 21.12.2015

Version: 1.0

Product: ABACUS ADVANCE

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

Content (W/W): 6 %

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

H315, H331, H335, H400, H410

M-factor acute: 100 M-factor chronic: 10

Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-

yl)methyl]oxirane

Content (W/W): 6 %

CAS Number: 133855-98-8

EC-Number: 406-850-2 INDEX-Number: 613-175-00-9 Acute Tox. 5 (oral)

Carc. 2

Repr. 2 (fertility) Repr. 2 (unborn child) Aquatic Acute 1

Aquatic Chronic 1

H303, H351, H361, H400, H410

solvent naphtha

Content (W/W): < 15 % CAS Number: 64742-94-5 REACH registration number: 01-

2119451097-39

Asp. Tox. 1 Aquatic Acute 2

Aquatic Chronic 2 H304, H401, H411

naphthalene

Content (W/W): < 0,15 %

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

H302, H351, H400, H410

M-factor acute: 1 M-factor chronic: 1

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

Content (W/W): < 0,05 % CAS Number: 2634-33-5 EC-Number: 220-120-9 INDEX-Number: 613-088-00-6 Acute Tox. 4 (oral) Skin Corr./Irrit. 2 Eye Dam./Irrit, 1

Skin Sens. 1 Aquatic Acute 1

H318, H315, H302, H317, H400

M-factor acute: 10

Specific concentration limit: Skin Sens. 1: >= 0,05 %

Date / Revised: 21.12.2015

Version: 1.0

Product: ABACUS ADVANCE

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

Propane-1,2-diol

Content (W/W): < 5 % CAS Number: 57-55-6 EC-Number: 200-338-0

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

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.

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.

Indication of any immediate medical attention and special treatment needed

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

5. Fire-Fighting Measures

Extinguishing media

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

Unsuitable extinguishing media for safety reasons: water jet

Special hazards arising from the substance or mixture

Date / Revised: 21.12.2015

Product: ABACUS ADVANCE

Version: 1.0

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

carbon monoxide, Carbon dioxide, Hydrogen chloride, Hydrogen fluoride, nitrogen oxides, organochloric compounds, sulfur oxides

The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

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. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

Reference to other sections

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

7. Handling and Storage

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. Remove contaminated clothing and protective equipment before entering eating areas.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Date / Revised: 21.12.2015

Version: 1.0 Product: ABACUS ADVANCE

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

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.

Storage stability:

Storage duration: 24 Months

Protect from temperatures below: -5 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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.

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

57-55-6: Propane-1.2-diol

91-20-3: naphthalene

64742-94-5: Solvent naphtha (petroleum), heavy arom.; Kerosine -- unspecified

133855-98-8: epoxiconazole(ISO); (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-

triazol-1-yl)methyl]oxirane

TWA value 0,3 mg/m3 (Recommendation of BASF), Respirable dust

Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

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) etc.

Eye protection:

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

Body protection:

Date / Revised: 21.12.2015 Product: ABACUS ADVANCE Version: 1.0

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:

suspension

Colour:

white

Odour:

faintly aromatic

Odour threshold:

Not determined since harmful by

inhalation.

pH value:

арргох, 4 - 7

(1 %(m), 20 °C)

Freezing point:

approx. -1 °C

Boiling point:

approx. 100 °C

Flash point:

No flash point - Measurement made

up to the boiling point.

Evaporation rate:

not applicable

Flammability:

not highly flammable

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Ignition temperature:

Vapour pressure:

475 °C

(Directive 92/69/EEC, A.15)

(DIN EN 22719; ISO 2719)

The product has not been tested.

Density:

approx. 1,03 g/cm3

(20°C)

Date / Revised: 21.12.2015

Version: 1.0

Product: ABACUS ADVANCE

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01,2017

Relative vapour density (air):

not applicable

Solubility in water:

dispersible

Partitioning coefficient n-octanol/water (log Kow):

not applicable

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic:

30 mPa.s

(approx. 20 °C, 100 1/s)

Viscosity, kinematic:

22,0 mm2/s (40 °C)

The product has not been tested. The statement has been derived from substances/products of a similar

structure or composition.

Explosion hazard:

not explosive

Fire promoting properties: not fire-propagating

(UN Test O.2 (oxidizing

liquids))

Other information

Other Information:

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

10. Stability and Reactivity

Reactivity

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

Chemical stability

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

Possibility of hazardous reactions

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

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products:

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

Date / Revised: 21.12.2015

Version: 1.0

Product: ABACUS ADVANCE

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of high toxicity after single ingestion. Virtually nontoxic after a single skin contact. Of moderate toxicity after short-term inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): > 200 - < 300 mg/kg (OECD Guideline 423)

LC50 rat (by inhalation): 3,79 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

LD50 rat (dermal): > 5.000 mg/kg (OECD Guideline 402)

No mortality was observed.

Irritation

Assessment of irritating effects:

Skin contact causes slight irritation. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

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

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

modified Buehler test guinea pig: Caused skin sensitization 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.

Date / Revised: 21.12.2015

Version: 1.0

Product: ABACUS ADVANCE (ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

Carcinogenicity

Assessment of carcinogenicity:

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

Information on: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests.

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.

Information on: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-vl)methylloxirane

Assessment of reproduction toxicity:

The results of animal studies suggest 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: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure)

Assessment of STOT single:

The available information is not sufficient for evaluation.

Date / Revised: 21.12.2015 Product: ABACUS ADVANCE Version: 1.0

(ID no. 30581163/SDS CPA 00/EN)

Date of print 31.01.2017

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: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs.

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-

yloxymethyl]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.

Information on: naphthalene

Assessment of repeated dose toxicity:

The substance may cause damage to the olfactory epithelium after repeated inhalation.

Aspiration hazard

No aspiration hazard expected.

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

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

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

Information on: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane

Toxicity to fish:

LC50 (96 h) > 2,2 - < 4,6 mg/l, Oncorhynchus mykiss

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

Date / Revised: 21.12.2015

Version: 1.0

Product: ABACUS ADVANCE

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01,2017

Toxicity to fish:

LC50 (96 h) 0,00616 mg/l, Oncorhynchus mykiss (EPA 72-1, Flow through.)

Information on: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane

Aquatic invertebrates:

EC50 (48 h) 8,69 mg/l, Daphnia magna

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

Aquatic invertebrates:

EC50 (48 h) 0,016 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Information on: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane
Aquatic plants:

EC50 (72 h) 2,3 mg/l, Ankistrodesmus bibraianus

EC50 (7 d) 0,0138 mg/l (growth rate), Lemna gibba (OECD guideline 221)

EC10 (7 d) 0,0019 mg/l (growth rate), Lemna gibba (OECD guideline 221)

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate
Aquatic plants:

EC50 (96 h) > 0,843 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201)

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

Chronic toxicity to fish:

No observed effect concentration (98 d) approx. 0,00235 mg/l, Oncorhynchus mykiss (OECD Guideline 210, Flow through.)

Information on: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane

Chronic toxicity to aquatic invertebrates:

No observed effect concentration > 0,63 mg/l, Daphnia magna (OECD Guideline 202, part 2)

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate
Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 0,004 mg/l, Daphnia magna

Persistence and degradability

Assessment biodegradation and elimination (H2O):

Date / Revised: 21.12.2015

Version: 1.0

Product: ABACUS ADVANCE

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31,01,2017

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

Information on: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-vl)methylloxirane

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria).

Information on: pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate
Assessment biodegradation and elimination (H2O):
Not readily biodegradable (by OECD criteria).

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: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane

Bioaccumulation potential:

Bioconcentration factor: 59 - 70, Oncorhynchus mykiss (OECD-Guideline 305)

Does not accumulate in organisms.

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

Bioaccumulation potential:

Bioconcentration factor: 379 - 507, Oncorhynchus mykiss (OECD-Guideline 305)

Accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole; (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane

Assessment transport between environmental compartments:

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

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

Assessment transport between environmental compartments:

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

Date / Revised: 21.12.2015

Product: ABACUS ADVANCE

Version: 1.0

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

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.

Other adverse effects

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

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.

14. Transport Information

Land transport

ADR

UN number

UN2902

UN proper shipping name:

PESTICIDE, LIQUID, TOXIC, N.O.S. (contains

PYRACLOSTROBIN, SOLVENT NAPHTHA)

Transport hazard class(es): 6.1, EHSM

Packing group:

Ш

Environmental hazards:

ves

Special precautions for

Tunnel code: E

user:

RID

UN number

UN2902

UN proper shipping name:

PESTICIDE, LIQUID, TOXIC, N.O.S. (contains

PYRACLOSTROBIN, SOLVENT NAPHTHA)

Transport hazard class(es): 6.1, EHSM

Date / Revised: 21.12.2015

Product: ABACUS ADVANCE

Version: 1.0

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

Packing group:

Ш

Environmental hazards:

ves

Special precautions for

None known

user:

Inland waterway transport

ADN

UN number

UN2902

UN proper shipping name:

PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN, SOLVENT NAPHTHA)

Transport hazard class(es):

6.1, EHSM Ш

Packing group:

Environmental hazards:

yes

Special precautions for

None known

user:

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number:

UN 2902

UN proper shipping name:

PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN, SOLVENT NAPHTHA)

Transport hazard class(es):

Packing group:

6.1, EH\$M Ш

yes

Environmental hazards:

Marine pollutant: YES

Special precautions for

user:

None known

Air transport

IATA/ICAO

UN number:

UN 2902

UN proper shipping name:

PESTICIDE, LIQUID, TOXIC, N.O.S. (contains PYRACLOSTROBIN, SOLVENT NAPHTHA)

Transport hazard class(es):

Packing group:

6.1

Environmental hazards:

Ш

No Mark as dangerous for the environment is needed

Special precautions for

user:

None known

Date / Revised: 21.12.2015 Version: 1.0

Product: ABACUS ADVANCE

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31.01.2017

UN number

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

UN proper shipping name

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

Transport hazard class(es)

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

Packing group

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

Environmental hazards

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

Special precautions for user

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

Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:

Not evaluated

Shipment approved:

Not evaluated

Pollution name:

Not evaluated

Pollution category:

Not evaluated

Ship Type:

Not evaluated

15. Regulatory Information

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)

16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Acute Tox.

Acute toxicity

Skin Corr./Irrit.

Skin corrosion/irritation

Skin Sens.

Skin sensitization

Carc.

Carcinogenicity

Date / Revised: 21.12.2015

Product: ABACUS ADVANCE

Version: 1.0

(ID no. 30581163/SDS_CPA_00/EN)

Date of print 31,01,2017

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
Asp. Tox.	Aspiration hazard
Eye Dam./Irrit.	Serious eye damage/eye irritation
H315	Causes skin irritation.
H331	Toxic if inhaled.
H335	
	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H303	May be harmful if swallowed.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility. Suspected of damaging the unborn child.
H304	May be fatal if swallowed and enters airways.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.

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.

Vertical lines in the left hand margin indicate an amendment from the previous version.