

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

1.1. Product identifier

Trade name : Diastar Maxi

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 : Plant protection product: Geoinsecticide.

1.2.2. Uses advised against

Restrictions on use : Any other unidentified use is not recommended.

1.3. Details of the supplier of the safety data sheet

Diachem S.p.A
Registered office: Via Tonale 15, 24061 - Albano Sant'Alessandro (BG), Italy
Plant and offices: Via Mozzanica 9/11, 24043 - Caravaggio (BG), Italy
T 0363/355611 - F 0363/355610
E-mail address of competent person: infosds@diachemagro.com

1.4. Emergency telephone number

Emergency number : Bergamo Poison Center: 800 883300 (Hospital Papa Giovanni XXIII – Bergamo (BG) Italy)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment — Acute Hazard, Category 1 H400

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

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.
P261 - Avoid breathing dust.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P391 - Collect spillage.
P401 - Store away from food or feed and drinks.
P501 - Dispose of contents/container to according to in force regulation for dangerous wastes.

EUH-statements :

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]
Zinc oxide	(CAS-No.) 1314-13-2 (EC-No.) 215-222-5 (EC Index-No.) 030-013-00-7 (REACH-no) 01-2119463881-32	2 - 20	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tefluthrin	(CAS-No.) 79538-32-2 (EC-No.) 616-699-6 (EC Index-No.) 607-723-00-6	0,5	Acute Tox. 1 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000)

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove the injured person from the area of exposure and transfer to a well-ventilated area. Call a doctor.
First-aid measures after skin contact	: Remove contaminated clothing and wash with plenty of soap and water. Call a doctor.
First-aid measures after eye contact	: Wash off immediately with plenty of water and/or isotonic solution for at least 15 minutes. Call a doctor.
First-aid measures after ingestion	: Do not administer anything by mouth and do not induce vomiting if the injured person is unconscious. Call a doctor.

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

Symptoms/effects	: Symptoms: stops nerve transmission by hyperstimulating pre-post-synaptically the neuronal endings. Particular sensitivity for allergic and asthmatic patients, as well as children. CNS symptoms: tremors, convulsions, ataxia; airway irritation: rhinorrhea, cough, bronchospasm and dyspnoea; triggering allergic reactions: anaphylaxis, hyperthermia, sweating, skin edemas, peripheral vascular collapse. It can cause temporary itching, tingling, burning or numbness of exposed skin, an effect called paresthesia. The paresthetic effects are transient and last up to 24 hours.
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4.3. Indication of any immediate medical attention and special treatment needed

Indications for the doctor: Therapy: symptomatic and resuscitation. Consult a poison center.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use fractionated water, chemical powder, foam.
Unsuitable extinguishing media	: No unsuitable extinguishing media were identified.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Thermal decomposition or combustion may cause the release of toxic and hazardous fumes containing Pox, NOx, COx, Cl ⁻ , F ⁻ and other substances in the event of incomplete decomposition.
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5.3. Advice for firefighters

Precautionary measures fire	: Cool the containers with jet water, even after the fire is extinguished. Remove the containers from the fire area if this can be done safely.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Wear appropriate protective equipment when handling the spilled product; for recommendations see the section EXPOSURE CONTROLS/PERSONAL PROTECTION. If exposed to material during clean-up operations, see FIRST AID MEASURES section, for actions to follow. Remove contaminated clothing immediately. After exposure, immediately wash the contaminated skin with soap and water. Wash clothes thoroughly before reuse.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.2. Environmental precautions

In case of accidental release or spillage, do not allow the mixture to reach drains and surface or ground water. If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

6.3. Methods and material for containment and cleaning up

For containment : Collect contaminated products on the affected surface, transfer to closed containers and send to an authorized disposal center. Wash the contaminated surface with water and collect the water used for subsequent purification or disposal of the waste. Cover the contaminated area with absorbent material such as sand or sepiolite.

6.4. Reference to other sections

For further information refer also to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in a well-ventilated space.
Wear suitable Personal Protective Equipment (see section 8).
Use protective glasses during the mixing / loading phase of the product.

Hygiene measures : Remove contaminated clothing and personal protective equipments (PPE) before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original containers, well-sealed and labelled with the product name, in a cool, dry place, away from sources of ignition. Avoid exposure to light and protect against moisture. Keep away from incompatible materials. Empty containers may also be hazardous due to product residues. Ventilation of the room/area: well-ventilated room. Keep away from food and drink.

7.3. Specific end use(s)

Chemical product for agriculture.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Zinc oxide (1314-13-2)

USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (mg/m ³)	2 mg/m ³
ACGIH STEL (mg/m ³)	10 mg/m ³
Remark (ACGIH)	Metal fume fever

Monitoring methods

Monitoring methods	The measurement of substances in the workplace must be carried out with standardized methods (e.g. UNI EN 689:2019: Workplace atmospheres - Guide for assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy; UNI EN 482:2015: Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents) or, failing that, with appropriate methods.
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Zinc oxide (1314-13-2)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5 mg/m ³
Long-term - local effects, inhalation	0.5 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	0.83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.5 mg/m ³
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	20.6 µg/L
PNEC aqua (marine water)	6.1 µg/L

PNEC (Sediment)

PNEC sediment (freshwater)	117.8 mg/kg dwt
PNEC sediment (marine water)	56.5 mg/kg dwt

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Zinc oxide (1314-13-2)	
PNEC (Soil)	
PNEC soil	35.6 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 µg/L

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:
Wear impervious gloves, resistant to chemical agents (eg rubber, neoprene, PVC), complying with EN 374 standard. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection:
Wear protective glasses. In the event of splashes, wear tightly fitting safety goggles or protective visor (EN 166).
Skin and body protection:
Wear category II professional long-sleeved overalls and safety footwear (EN 344). Wash with soap and water after removing protective clothing.
Respiratory protection:
Use suitable respiratory protection systems, such as FFP2 class filters (EN 149).

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	: Solid (granules)
Colour	: Grey.
Odour	: Slightly pungent.
Odour threshold	: No data available, experimental evaluation not conducted
pH	: No data available, experimental evaluation not conducted
pH solution	: 5.79 1% solution [CIPAC MT 75.3]
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: No data available, experimental evaluation not conducted
Freezing point	: 44,6 °C Tefluthrin pure
Boiling point	: 156 °C Tefluthrin pure
Flash point	: Not applicable
Auto-ignition temperature	: No evidence below 400 ° C
Decomposition temperature	: No data available, experimental evaluation not conducted
Flammability (solid, gas)	: Non flammable. [EEC A.10]
Vapour pressure	: No data available, experimental evaluation not conducted
Relative vapour density at 20 °C	: No data available, experimental evaluation not conducted
Relative density	: No data available, experimental evaluation not conducted
Solubility	: Water: 0,02 mg/l Tefluthrin pure Insoluble in cold water (Zinc oxide) Organic solvent: acetone, dichloromethane, hexane, ethyl acetate > 500 g/l (pure Tefluthrin at 21 ° C) methanol > 263 g / l (pure Tefluthrin at 21 ° C)
Partition coefficient: n-octanol/water	: No data available, experimental evaluation not conducted
Viscosity, kinematic	: No data available, experimental evaluation not conducted
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive. [EEC A.14]
Oxidising properties	: Not oxidiser. [EEC A.17]
Explosive limits	: Not applicable

9.2. Other information

Particle size distribution: : 0,5 ± 2,36 mm [CIPAC MT 170]

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

Dustiness: : 3,6 mg [CIPAC MT 171]

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The mixture is stable under normal temperature and pressure conditions and if stored in closed containers in a cool and well-ventilated place.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Avoid contact with oxidizers, acids and metals.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may cause the release of toxic and hazardous fumes containing POx, NOx, COx, Cl-, F- and other substances in the event of incomplete decomposition..

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Diastar Maxi	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Zinc oxide (1314-13-2)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5700 mg/l/4h

Tefluthrin (79538-32-2)	
LD50 oral rat	21.8 mg/kg bodyweight
LD50 dermal rat	177 mg/kg bodyweight
LC50 inhalation rat (mg/l)	0.037 mg/l/4h

Skin corrosion/irritation : Not classified (Very light erythema and very light edema, totally reversible in 1 day in New Zealand rabbit)

Serious eye damage/irritation : Not classified (Moderate and totally reversible ocular reactions were observed during the study in New Zealand rabbits)

Respiratory or skin sensitisation : Not classified

Additional information : *Zinc oxide*: The substance did not show sensitising effects in in vivo dermal studies.
Tefluthrin: The substance did not show sensitising effects in in vivo tests on guinea pigs.

Germ cell mutagenicity : Not classified

Additional information : *Tefluthrin*: The substance did not show mutagenic effects in the studies performed.
Zinc oxide did not show mutagenic effects neither in in vitro studies nor in in vivo studies, both for the micro and nano forms.

Carcinogenicity : Not classified

Zinc oxide (1314-13-2)	
Additional information	Zinc oxide has been evaluated in several epidemiological studies on workers, no significant correlations have been found.

Tefluthrin (79538-32-2)	
Additional information	The substance did not show carcinogenic effects in the studies performed.

Reproductive toxicity : Not classified

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

Zinc oxide (1314-13-2)	
Additional information	Zinc oxide has been evaluated in several epidemiological studies on workers, no significant correlations have been found.

Tefluthrin (79538-32-2)	
Additional information	No adverse effects were observed in the fertility parameters. The derived NOAELs for the unborn and for the parents were 4.7 mg/kg bw/g, while the reproductive NOAEL was 23.4 mg/kg bw/g. Teratogenicity effects were not shown in developmental toxicity studies.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Zinc oxide (1314-13-2)	
Additional information	No adverse effects were found during in vivo studies on animals and humans, below the limits imposed for human diet.

Tefluthrin (79538-32-2)	
Additional information	Repeated toxicity studies have shown that the target organs are primarily the nervous system and thyroid. NOAEL for dogs at 13 and 52 weeks was established at 0.5 mg/kg bw/g. In a 21-day dermal study in rats, LOAEL for local effects of paraesthesia was identified at the dose of 0.1 mg/kg bw/g while systemic NOAEL was set at 50 mg/kg bw/g.

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

Diastar Maxi	
NOEC (chronic)	> 0,25 mg product/kg dry soil, on Eisenia andrei, 28d
NOEC (chronic)	>105.38 mg product/kg dry soil, on Hypoaspis aculeifer, 2 weeks
NOEC (chronic)	35.56 mg product/kg of dry soil, on Folsomia Candida, 4 weeks

Zinc oxide (1314-13-2)	
LC50 fish 1	1,79 mg/l on Danio rerio, 96h
EC50 Daphnia 1	2,6 mg/l on Daphnia magna, 48h
EC50 72h algae (1)	0,000136 mg/l on Pseudokirchneriella subcapitata, 72h

Tefluthrin (79538-32-2)	
LC50 fish 1	0,06 µg/l on Oncorhynchus mykiss, 96h
EC50 Daphnia 1	0,064 µg/l on Daphnia Magna, 48h
ErC50 (algae)	> 1,05 mg/l on Pseudokirchneriella subcapitata, 72h
NOEC chronic fish	3,97 ng/l on Pimephales promelas, 345d
NOEC chronic crustacea	7,92 ng/l on Daphnia Magna, 21d

12.2. Persistence and degradability

Zinc oxide (1314-13-2)	
Persistence and degradability	The substance is inorganic, the concept of biodegradation is not applicable.

Tefluthrin (79538-32-2)	
Persistence and degradability	The substance is not easily biodegradable. The half-life in water is 60-203 days, therefore it is persistent in water. Soil half-life time is 48-151 days, therefore it's not persistent in the soil.

Diastar Maxi

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

12.3. Bioaccumulative potential

Zinc oxide (1314-13-2)	
Bioaccumulative potential	Zinc is a central element in animal and human metabolism, bioaccumulation is not expected given the regulation mechanism that keeps stable the concentration of metal in the body.

Tefluthrin (79538-32-2)	
Bioaccumulative potential	Due to the LogPow data (6.4) and the determined bioconcentration coefficient in fish (1400), a bioaccumulation potential for the substance in living beings is assumed.

12.4. Mobility in soil

Tefluthrin (79538-32-2)	
Mobility in soil	The substance is practically immobile in the soil, with a K _{Foc} = 46000-36x10 ⁻⁵ mL/g

12.5. Results of PBT and vPvB assessment

Diastar Maxi	
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

Waste treatment methods	: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws. The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.
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SECTION 14: Transport information

14.1. UN number		
3077	3077	3077

14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TEFLUTHRIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TEFLUTHRIN)	Environmentally hazardous substance, solid, n.o.s. (TEFLUTHRIN)
Transport document description		
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TEFLUTHRIN), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TEFLUTHRIN), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (TEFLUTHRIN), 9, III

14.3 Transport hazard class(es)		
9	9	9
Transport document description		
		

14.4 Packing group		
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

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

14.6 Special precautions for user

- Overland transport

Classification code (ADR)	: M7
Limited quantities (ADR)	: 5 kg
Excepted Quantity (ADR)	: E1
Transport category (ADR)	: 3
Hazard identification number (Kemler No.)	: 90

- Transport by sea

Limited quantities (IMDG)	: 5 kg
Excepted Quantity (IMDG)	: E1

- Air transport

PCA Excepted Quantity (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30 kg G
PCA Packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400 kg
CAO Packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400 kg
Special provisions (IATA)	: A97, A158, A179, A197
ERG Code (IATA)	: 9L

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

Other information, restriction and prohibition regulations : Regulation REACH (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Seveso III: Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, transposed in Italy with D. Lgs. 105/2015. Section: E Category: E1

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Revision 2 of Edition 2 dated 24 January 2020 - Changes to sections: 2, 3, 4, 11 and 15.

Abbreviations and acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CAS	Chemical Abstract Service (division of the American Chemical Society)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

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

LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLV/TWA	Threshold Limit Value/Threshold Weighted Average
vPvB	Very Persistent and Very Bioaccumulative

Data sources : EFSA: Conclusion on the peer review of the pesticide risk assessment of the active substance tefluthrin, 2010.
ECHA Database.
Internal data.

Training advice : Training instructions: Comply with the provisions of Directive 98/24/EC and subsequent amendments and national implementations.

Full text of H- and EUH-statements:		
H300	Fatal if swallowed.	
H310	Fatal in contact with skin.	
H330	Fatal if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

SDS EU (REACH Annex II)

The document aims to provide guidance for appropriate handling and precaution of this product by qualified personnel or operating under the supervision of personnel trained in handling chemicals. The product should not be used for purposes other than those mentioned in section 1, unless they are given adequate written information received on how to handle the material.

The provider of this document cannot provide any warnings related to the dangers of using, interaction with other materials or chemicals or user's safe use of the product, the suitability of the product for which is applied or its proper disposal. The information above should not be considered a declaration or guarantee, either expressed or implied, of merchantability, fitness for a particular purpose, quality, or any other.