

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.11.2022

Version 1.0

Revision: 18.11.2022

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

1.1 Product identifier

Trade name: **IOTOX EXCELIUM**

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

Application of the substance / mixture Insecticide (biocide PT18)

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

IPC - 10 Quai MALBERT - 29200 BREST FRANCE

Tel : 33(0)2 98 43 45 44 - Fax : 33(0)2 98 44 22 53 - Mail : ipc@groupe-ipc.com

Further information obtainable from: Kwizda Biocides, E-Mail: regulatory@kwizda-france.com

1.4 Emergency telephone number Call local emergency information.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS09

Signal word void

Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P391 Collect spillage.

P501 Dispose of contents/container to appropriate waste disposal in accordance with local/national regulations.

2.3 Other hazards

Determination of endocrine-disrupting properties

The product contains no components considered to have endocrine disrupting properties according to REACH Article 57(f), Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixture

Description: Contact liquid based on acetamiprid (2 g/l), d-tetramethrin (1 g/l) and PBO (4 g/l)

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Dangerous components:		
CAS: 51-03-6 EINECS: 200-076-7 Reg.No.: 01-2119537431-46	piperonyl butoxide ----- Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.4%
CAS: 135410-20-7 EC number: 603-921-1 Index number: 608-032-00-2	acetamiprid ----- Acute Tox. 3, H301; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	0.2%
CAS: 1166-46-7 EINECS: 214-619-0 Index number: 607-728-00-3	d-tetramethrin ----- Carc. 2, H351; STOT SE 2, H371; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Acute Tox. 4, H302	
CAS: 96-48-0 EINECS: 202-509-5 Reg.No.: 01-2119471839-21	gamma-butyrolactone ----- Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H336	< 1%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or if you feel unwell seek medical advice immediately (show label or SDS where possible).

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash with water and soap and rinse thoroughly. In case of irritation seek medical treatment.
Wash contaminated clothes before reuse.

After eye contact:

Rinse opened eye for several minutes under running water. Get medical advice if irritation persists.

After swallowing:

Rinse out mouth with plenty of water. If symptoms of indisposition persist, seek medical advice.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of hazardous gases (CO_x, NO_x) is possible in case of fire.

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.

If necessary wear self-contained respiratory equipment and dependent on dimensions of fire wear fully protective suit.

Additional information

Contain runoff to prevent entry into water or drainage systems.

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Dispose of fire debris and contaminated firefighting water according to the regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)

Avoid contact with skin and eyes.

Keep unprotected persons away. Ensure adequate ventilation.

6.2 Environmental precautions:

Do not allow to enter sewers, surface or ground water.

Advise water authority in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid or universal binders, sawdust).

Place into lockable, labelled salvage container for disposal according to the regulations.

Clean affected area with plenty of water. Place into lockable labelled container for disposal according to the regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

While handling pay attention to the usual precaution for chemicals.

Comply with instructions for use.

Avoid any contact with skin, eyes and clothes.

Wash hands before break and at the end of work.

Information about fire - and explosion protection: No further relevant information available.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store only in tightly closed original receptacles.

Protect against direct sun exposure and frost.

Information about storage in one common storage facility:

Do not store food, beverages and animal feeding stuffs in the storage area.

Further information about storage conditions:

Keep out of the reach of children and domestic animals.

Close the cap after use.

Keep only in original packaging.

Store containers upright.

7.3 Specific end use(s) Use according to instructions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 96-48-0 gamma-butyrolactone

HTP (Finland)	Short-term value: 70 mg/m ³ , 250 ppm; Long-term value: 14 mg/m ³ , 50 ppm; iho
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MAK (Germany) | vgl. Abschn. IIb

Regulatory information

HTP (Finland): 654/2020

MAK (Germany): MAK- und BAT-Liste

DNELs:

piperonyl butoxide (CAS 51-03-6):

Worker, DNEL, long-term exposure - systemic effects, inhalation 1.6 mg/m³

Worker, DNEL, long-term exposure - systemic effects, dermal 0.443 mg/kg bw/day

Consumer, DNEL, long-term exposure - systemic effects, oral 0.221 mg/kg bw/day

Consumer, DNEL, long-term exposure - systemic effects, inhalation 0.388 mg/m³

Consumer, DNEL, long-term exposure - systemic effects, dermal 0.221 mg/kg bw/day

PNECs:

piperonyl butoxide (CAS 51-03-6):

fresh water 0.00148 mg/l, marine water 0.000148 mg/l

sediment: fresh water 0.043 mg/kg, marine water 0.0043 mg/kg

STP 2.89 mg/l, terrestrial compartment 0.111 mg/kg dw

8.2 Exposure controls**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace and keep it tidy.

Remove contaminated clothing immediately and wash carefully before reuse.

Wash hands before break and at the end of work.

Respiratory protection: Not required if room is well-ventilated.**Hand protection**

Chemical resistant gloves (EN 374) recommended

Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Not required if handled properly.**Body protection** Protective clothing recommended.**Environmental exposure controls**

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Form:**

Fluid

Colour:

Milky

Odour:

Characteristic

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Odour threshold:	Not determined
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	Not applicable.
Lower and upper explosion limit:	No data available.
Flash point:	No data available
Ignition temperature:	No data available.
Decomposition temperature:	No data available.
pH:	4 - 6
Viscosity	
kinematic:	No data available.
Solubility	
water:	Soluble.
Partition coefficient, n-octanol/water:	No data available.
Vapour pressure:	Not determined.
Density:	≈ 1 g/ml
Relative gas density	No data available.
9.2 Other information	
Explosive properties:	No data available
Oxidising properties:	No data available.
Information with regard to physical hazard classes	
Explosives	void
Flammable gases	not relevant
Aerosols	not relevant
Oxidising gases	not relevant
Gases under pressure	not relevant
Flammable liquids	void
Flammable solids	not relevant
Self-reactive substances and mixtures	void
Pyrophoric liquids	void
Pyrophoric solids	not relevant
Self-heating substances and mixtures	void
Substances and mixtures, which emit flammable gases in contact with water	void
Oxidising liquids	void
Oxidising solids	not relevant
Organic peroxides	void
Corrosive to metals	void
Desensitised explosives	void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No hazardous reactions known if used according to specifications.

10.4 Conditions to avoid Extreme temperatures and direct sun exposure.

10.5 Incompatible materials Do not mix with other products.

10.6 Hazardous decomposition products None under normal conditions of storage and use.

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

There are no product specific data on toxicology available.

CAS: 135410-20-7 acetamiprid		
oral	LD50	140 mg/kg (ATE)
dermal	LD50	> 2,000 mg/kg (rat) (OECD 402)
inhalative	LC50/4h	> 1.15 mg/l (rat) (OECD 403)
CAS: 1166-46-7 d-tetramethrin		
oral	LD50	1,050 mg/kg (mouse)
dermal	LD50	> 2,000 mg/kg (rat)
inhalative	LC50/4h	> 1.18 mg/l (rat)
CAS: 51-03-6 piperonyl butoxide		
oral	LD50	4,570 mg/kg (rat, male) (OECD 401)
dermal	LD50	> 2,000 mg/kg (rabbit) (OECD 402)
inhalative	LC50/4h	> 5.9 mg/l (rat) (OECD 403)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Acetamiprid:

Ames test: negative; Chromosomal aberration test: positive (D20=10.6 mg/ml)

Micronucleus test (mouse): negative; Uds test: negative

d-tetramethrin, rat: negative

Carcinogenicity Acetamiprid, rat/mouse: negative

Reproductive toxicity Based on available data, the classification criteria are not met.

Developmental toxicity: Acetamiprid, rat/rabbit: negative

Teratogenicity: Acetamiprid, rat/mouse: negative

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Subacute to chronic toxicity:

Acetamiprid:

NOAEL/2 years: 7.1 mg/kg bw/day (rat, male); 8.8 mg/kg bw/day (rat, female)

NOAEL/1,5 years: 20.3 mg/kg bw/day (mouse, male); 25.2 mg/kg bw/day (mouse, female)

11.2 Information on other hazards

Endocrine disrupting properties None of the ingredients is listed.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

For the product there are no ecotoxicological data available.

CAS: 135410-20-7 acetamiprid

LC50/96h > 100 mg/l (rainbow trout, *Oncorhynchus mykiss*) (OECD 203)

EC50/48h 0.024 mg/l (harlequin fly, *Chironomus riparius*)

49.8 mg/l (water flea, *Daphnia magna*) (OECD 202)

ErC50/72h > 98.3 mg/l (alga, *Desmodesmus subspicatus*) (OECD 201)

NOEC/28d 5 µg/l (harlequin fly, *Chironomus riparius*)

CAS: 1166-46-7 d-tetramethrin

LC50/96h 0.01 mg/l (fish)

EC50/48h 0.11 mg/l (water flea, *Daphnia magna*)

CAS: 51-03-6 piperonyl butoxide

LC50/96h 3.94 mg/l (sheepshead minnow, *Cyprinodon variegatus*) (OECD 203)

EC50/48h 0.51 mg/l (water flea, *Daphnia magna*) (OECD 202)

EC50/72h 3.89 mg/l (alga, *Selenastrum capricornutum*) (OECD 201)

NOEC 0.18 mg/l (flathead minnow, *Pimephales promelas*) (EPA OPP 72-4)

NOEC/72h 0.824 mg/l (alga, *Selenastrum capricornutum*) (OECD 201)

NOEC/21d 0.03 mg/l (water flea, *Daphnia magna*) (EPA OPP 72-4)

12.2 Persistence and degradability

acetamiprid: not readily biodegradable

d-tetramethrin: not readily biodegradable; photodegradable.

piperonyl butoxide: not readily biodegradable (OECD 301D)

12.3 Bioaccumulative potential

acetamiprid: not bioaccumulative

d-tetramethrin: not bioaccumulating; Partition coefficient: 4.35

piperonyl butoxide: log Kow 4.8 (pH 6.5; OECD 117), BCF 91 - 260 - 380 (OECD 305E)

12.4 Mobility in soil piperonyl butoxide: low to moderately mobile

12.5 Results of PBT and vPvB assessment

According to the Competent Authority Report (CAR, August 2018, Regulations (EU) No. 528/2012 and No. 2018/1129), acetamiprid fulfils the vP and T criteria.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

The product does not contain any substances listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not empty dispose waste or remains into sink or toilet, hand over to hazardous waste disposers.

European waste catalogue 02 01 08: agrochemical waste containing dangerous substances

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Trade name: IOTOX EXCELIUM**Uncleaned packaging****Recommendation:**

Disposal must be made according to official regulations.

Do not reuse empty contaminated packaging for other purposes; dispose according to official regulations.

Not completely emptied packaging is to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number**ADR** UN3082**14.2 UN proper shipping name****ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (piperonyl butoxide, d-tetramethrin)**14.3 Transport hazard class(es)****ADR****Class**

9 (M6) Miscellaneous dangerous substances and articles.

Label

9

14.4 Packing group**ADR** III**14.5 Environmental hazards:****Special marking (ADR):** Symbol (fish and tree)**14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

Hazard identification number (Kemler code):

90

14.7 Maritime transport in bulk according to IMO instruments

not applicable

UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE, D-TETRAMETHRIN), 9, III

SECTION 15: Regulatory information

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

822.115, Youth Employment Protection Ordinance - ArGV 5 and 822.115.2, EAER Ordinance on Hazardous Work for Young People are not applicable.

ArGV 1 and 822.111.52, EAER Ordinance on dangerous and arduous work during pregnancy and maternity are not applicable.

Seveso category E2 Hazardous to the Aquatic Environment**National regulations:** -**Additional information:** Use biocides safely. Always read the label and product information before use.**Classification according to VbF:** No data available.**Water hazard class:**

Water hazard class (German Regulation) 3 (self-assessment): extremely hazardous for water.

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Class A (Swiss Regulation, self-assessment)

Other regulations, limitations and prohibitive regulations

This formulation is beyond the scope of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

This formulation is beyond the scope of Regulation (EC) 2019/1021 on persistent organic pollutants.

This formulation is beyond the scope of Regulation (EC) No 649/2012 concerning the export and import of hazardous chemicals.

This formulation is not subject to special provisions for the protection of human health or the environment at Community level.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Further information:

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: Calculation method

Abbreviations and acronyms:

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: Acute Toxicity Estimates

LC50: lethal concentration, 50%

LD50: lethal dose, 50%

EC50: maximal effective concentration, 50%

ErC50: median effective concentration for growth rate (algae)

NOEC: no observed effect concentration

NOAEL: No Observed Adverse Effect Level

vPvB: very persistent and very bioaccumulative properties

PBT: persistent, bioaccumulative and toxic properties

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

VbF: Ordinance on the storage of combustible liquids, Austria

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Data compared to the previous version altered: -