

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

#### - 1.1 Product identifier

- Trade name: 6 fcX]tcd'; Y

- Sds code/version: 0/17

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

Ready for use rodenticide (biocidal product-PT14)

- Application of the substance / the mixture Ready for use rodenticide (biocidal product-PT14)

#### - 1.3 Details of the supplier of the safety data sheet

##### - Manufacturer/Supplier:

Schippers Europe B.V.  
Rond Deel 12  
5531 AH Bladel  
Nederland

- Further information obtainable from: Tech. dept.

#### - 1.4 Emergency telephone number:

NHS In England and Wales: NHS 111 - dial 111  
In Scotland: NHS 24 - dial 111  
In Republic of Ireland: 01 809 2166

### SECTION 2: Hazards identification

#### - 2.1 Classification of the substance or mixture

##### - Classification according to Regulation (EC) No 1272/2008

Repr. 1A H360D May damage the unborn child.

STOT RE 2 H373 May cause damage to the blood through prolonged or repeated exposure.

#### - 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



GHS08

- Signal word Danger

##### - Hazard-determining components of labelling:

brodifacoum

##### - Hazard statements

H360D May damage the unborn child.

H373 May cause damage to the blood through prolonged or repeated exposure.

##### - Precautionary statements

P102 Keep out of reach of children.

P280 Wear protective gloves.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

# Safety data sheet

## according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

Trade name: **6 fcX]lrcd'; Y**

(Contd. of page 1)

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

**- Additional information:**

Restricted to professional users.

**- Further information:**

To be used only by professional users holding certification demonstrating compliance with UK rodenticide stewardship regime requirements.

Read the label before use. Using this product in a manner that is inconsistent with the label may be an offence. Refer to the CRRU UK Code of Best Practice (or equivalent) for guidance.

When this product is supplied to a user for the control of rodents, it shall only be supplied to a professional user holding certification demonstrating compliance with UK rodenticide stewardship regime requirements.

**- 2.3 Other hazards**

**- Results of PBT and vPvB assessment**

<b>- PBT:</b>	
<b>56073-10-0 brodifacoum</b>	
PBT	Brodifacoum fulfils the P, B and T criteria.
<b>- vPvB:</b>	
<b>56073-10-0 brodifacoum</b>	
vPvB	Brodifacoum fulfils the vP criterion.

### SECTION 3: Composition/information on ingredients

**- 3.2 Mixtures**

**- Description:** Mixture of substances listed below with nonhazardous additions.

<b>- Dangerous components:</b>		
CAS: 9005-25-8 EINECS: 232-679-6	Starch substance with a workplace exposure limit	10-20%
CAS: 57-50-1 EINECS: 200-334-9	sucrose substance with a workplace exposure limit	5-10%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119480433-40	2,6-di-tert-butyl-p-cresol (BHT) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
CAS: 56073-10-0 EINECS: 259-980-5 Index number: 607-172-00-1	brodifacoum Acute Tox. 1, H300; Acute Tox. 1, H310; Acute Tox. 1, H330; Repr. 1A, H360D; STOT RE 1, H372; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	0.005%

**- 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:** Please refer to the instructions below for each specific way of exposure.

**- After inhalation:** Supply fresh air and to be sure call for a doctor.

**- After skin contact:**

In case of contact with skin, wash with soap and water.  
Remove and launder any contaminated clothing.  
If needed, seek for medical advice.

**- After eye contact:**

In case of contact with eyes, remove contact lenses if present and rinse the eye slowly and gently with water for 15-20 minutes.  
Seek medical advice immediately.

**- After swallowing:** Seek immediate medical advice.

(Contd. on page 3)

# Safety data sheet

## according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

Trade name: **6 fcX]hcd'; Y**

(Contd. of page 2)

### - 4.2 Most important symptoms and effects, both acute and delayed

Brodifacoum is an anticoagulant which may produce bleeding; this may be delayed for several days after exposure. If there is no active bleeding the INR (prothrombin time) should be measured on presentation and 48-72 hours after exposure. If the INR is greater than 4, administer Vitamin K1 (phytomenadione) 5-10 mg by slow intravenous injection (100 g/kg body weight for a child). Treatment with phytomenadione (orally or intravenously) may be required for several weeks. The advice of the National Poisons Information Service (<http://www.npis.org/>) should be sought, particularly if active bleeding occurs.

### - 4.3 Indication of any immediate medical attention and special treatment needed

Antidote vitamin K1 (under medical supervision).

UK medical professionals should contact the National Poisons Information Service ([www.npis.org](http://www.npis.org/)) for further advice.

## SECTION 5: Firefighting measures

### - 5.1 Extinguishing media

- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

- **For safety reasons unsuitable extinguishing agents:** To our knowledge, there are no unsuitable equipments.

- **5.2 Special hazards arising from the substance or mixture** In case of fire, toxic gases may be generated.

- **5.3 Advice for firefighters** Firefighters equipment in accordance with EN469 European standards.

### - Protective equipment:

Firefighters equipment in accordance with EN469 European standards.

Do not inhale explosion gases or combustion gases.

### - Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

### - 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

### - 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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

### - 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

After cleaning up, ensure adequate ventilation.

Dispose of the material collected according to 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

Wash hands and exposed skin before meals and after use.

Wear appropriate protective gloves.

When using the product, do not eat, drink or smoke.

### - Information about fire - and explosion protection:

See Section 6.

See section 5.

### - 7.2 Conditions for safe storage, including any incompatibilities

### - Requirements to be met by storerooms and receptacles:

Store in a dry, cool and well ventilated place. Keep the container closed and away from direct sunlight.

Store in places prevented from the access of children, birds, pets and farm animals.

(Contd. on page 4)

# Safety data sheet

## according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

Trade name: **6 fcX]tcd; Y**

(Contd. of page 3)

**- Information about storage in one common storage facility:**

Place the product away from food, drink and animal feeding stuffs, as well as from utensils or surfaces that have contact with these.

**- Further information about storage conditions:**

Keep only in original container.  
Store away from light.  
Protect from frost.  
Protect from humidity and water.

**- 7.3 Specific end use(s)** This product is a rodenticide bait for rodents' control.

**SECTION 8: Exposure controls/personal protection**

**- Additional information about design of technical facilities:** No further data; see item 7.

**- 8.1 Control parameters****- Ingredients with limit values that require monitoring at the workplace:**

9005-25-8 Starch	
WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> * total inhalable **respirable
Flours dust	
WEL (Great Britain)	Short-term value: 30 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup> Capable of causing occupational asthma.
57-50-1 sucrose	
WEL (Great Britain)	Short-term value: 20 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup>
128-37-0 2,6-di-tert-butyl-p-cresol (BHT)	
WEL (Great Britain)	Long-term value: 10 mg/m <sup>3</sup>

**- Regulatory information** WEL (Great Britain): EH40/2005 - 2011 Edition

**- DNELs**

128-37-0 2,6-di-tert-butyl-p-cresol (BHT)		
Oral	Long term - systemic effects	0.25 mg/kg bw/d (general population)
Dermal	Long term - systemic effects	0.25 mg/kg bw/d (general population)
		0.5 mg/kg bw/d (workers)
Inhalative	Long term - systemic effects	0.86 mg/m <sup>3</sup> (general population)
		3.5 mg/m <sup>3</sup> (workers)

**- PNECs**

56073-10-0 brodifacoum		
Oral	PNEC	1.28x10 <sup>-5</sup> mg/kg bw (bird)
		1.1x10 <sup>-5</sup> mg/kg bw (mammal)
	PNEC	0.00004 mg/l (aquatic organisms)
		>0.0038 mg/l (microorganisms)
	PNEC	>0.88 mg/kg (soil) (wet weight)
128-37-0 2,6-di-tert-butyl-p-cresol (BHT)		
PNEC		0.000199 mg/l (fresh water)
		0.00002 mg/l (marine water)
		0.17 mg/l (sewage treatment plant)
		0.0996 mg/kg (sediment (fresh water))
		0.00996 mg/kg (sediment (marine water))
		0.04769 mg/kg (soil)
		8.33 mg/kg (secondary poisoning)

(Contd. on page 5)

# Safety data sheet

## according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

Trade name: **6 fcX]tcd; Y**

(Contd. of page 4)

- Other exposure limit values		
<b>56073-10-0 brodifacoum</b>		
Oral	AEL - short term	3.3x10 <sup>-6</sup> mg/kg bw (AEL)
	AEL - medium term	6.67x10 <sup>-6</sup> mg/kg bw (AEL)
	AEL - long term	3.3x10 <sup>-6</sup> mg/kg bw (AEL)

### - 8.2 Exposure controls

#### - Personal protective equipment:

#### - General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

- **Respiratory protection:** Not required during normal use of the product.

#### - Protection of hands:



Protective gloves

When handling the product, wear suitable gloves (EN 374, category III).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### - Material of gloves

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 can not 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 protection:** Not required during normal use of the product.

- **Limitation and supervision of exposure into the environment** See section 6.

- **Risk management measures** Follow the above-reported directions.

## SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties	
- General Information	
- Appearance:	
Form:	Solid
Colour:	Blue
- Odour:	Characteristic
- Odour threshold:	No data available.
- pH-value:	6.7 (CIPAC MT 75.3 - 1% H <sub>2</sub> O)
- Change in condition	
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.

(Contd. on page 6)

## Safety data sheet

### according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

Trade name: **6 fcX]tcd'; Y**

(Contd. of page 5)

- <b>Flash point:</b>	Not applicable.
- <b>Flammability (solid, gas):</b>	Not available (the product does not contain any ingredient classified as flammable).
- <b>Ignition temperature:</b>	No data available.
- <b>Decomposition temperature:</b>	No data available.
- <b>Auto-ignition temperature:</b>	Product is not selfigniting.
- <b>Explosive properties:</b>	Product does not present an explosion hazard.
- <b>Explosion limits:</b>	
<b>Lower:</b>	No data available.
<b>Upper:</b>	No data available.
- <b>Vapour pressure:</b>	Not applicable.
- <b>Density:</b>	No data available.
- <b>Relative density</b>	1.1788 g/mL (EU Method A.3)
- <b>Vapour density</b>	Not applicable.
- <b>Evaporation rate</b>	Not applicable.
- <b>Solubility in / Miscibility with</b>	
<b>water:</b>	Insoluble.
- <b>Partition coefficient: n-octanol/water:</b>	No data available.
- <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
- <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.2 %
<b>Solids content:</b>	99.7 %
- <b>9.2 Other information</b>	No further relevant information available.

#### SECTION 10: Stability and reactivity

- **10.1 Reactivity** Under standard handling and storing conditions, the product does not show any dangerous reaction.
- **10.2 Chemical stability** Stable at room temperature and if used as recommended.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**  
Under standard handling and storing conditions, the product does not show any dangerous reaction.
- **10.5 Incompatible materials:**  
Store only in original container.  
Given the lack of information about possible incompatibilities with other substances, it is recommended not to use it in combination with other products.
- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products known under normal conditions of storage and use.

(Contd. on page 7)

# Safety data sheet

## according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

Trade name: **6 fcX]tcd; Y**

(Contd. of page 6)

### SECTION 11: Toxicological information

#### - 11.1 Information on toxicological effects

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

#### - LD/LC50 values relevant for classification:

57-50-1 sucrose		
Oral	LD50	29700 mg/kg bw (rat)
128-37-0 2,6-di-tert-butyl-p-cresol (BHT)		
Oral	LD50	>2930 mg/kg bw (rat)
Dermal	LD50	>2000 mg/kg bw (rat) (OECD 402)
Inhalative	RD50	59.7 ppm (mouse) 30 min.
56073-10-0 brodifacoum		
Oral	LD50	0.4 mg/kg bw (male rat and mouse)
Dermal	LD50	3.16 mg/kg bw (rat)
Inhalative	LC50/4h	3.05 mg/m <sup>3</sup> (rat)

- **Primary irritant effect:**

- **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.

#### - Subacute to chronic toxicity:

128-37-0 2,6-di-tert-butyl-p-cresol (BHT)		
Oral	NOAEL - subacute toxicity	25 mg/kg bw (rat)

#### - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **Carcinogenicity** Based on available data, the classification criteria are not met.

#### - Reproductive toxicity

128-37-0 2,6-di-tert-butyl-p-cresol (BHT)	
NOAEL	500 mg/kg bw (rat)
NOAEL (developmental toxicity)	100 mg/kg bw (rat)
56073-10-0 brodifacoum	
developmental toxicity	Clear developmental toxicity was not observed in rabbits or rats. However, as a precaution, Brodifacoum should be considered teratogenic to humans because it contains the same chemical moiety responsible for the teratogenicity of warfarin, a known human teratogenic agent, and it has the same mode of action that is a known mechanism of teratogenicity in humans.

May damage the unborn child.

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

#### - STOT-repeated exposure

56073-10-0 brodifacoum	
Oral	NOAEL 0.04 mg/kg bw (rat) The study reveals that repeated oral exposure results in toxic effects: prothrombin time prolongation, kaolin-caphalin time prolongation, haemorrhage. Based on the results of the acute dermal and inhalation toxicity studies and route-to-route extrapolation, it is justified to assume a similar concern for serious damage to health by prolonged exposure through dermal and inhalation routes also.

May cause damage to the blood through prolonged or repeated exposure.

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

(Contd. on page 8)

# Safety data sheet

## according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

Trade name: **Broditop Gel**

(Contd. of page 7)

### SECTION 12: Ecological information

#### - 12.1 Toxicity

- Aquatic and/or terrestrial toxicity:	
<b>128-37-0 2,6-di-tert-butyl-p-cresol (BHT)</b>	
EC50/3h	>10000 mg/l (activated sludge)
IC50/72h	>0.4 mg/l (desmodesmus subspicatus)
LC0/96h	≥ 0.57 mg/l (danio rerio)
NOEC (21d)	0.316 mg/l (daphnia magna)
EC50/48h	0.61 mg/l (daphnia magna)
<b>56073-10-0 brodifacoum</b>	
LC50/14d	(eisenia foetida) >994 mg/kg dry weight >879.6 mg/kg wet weight
ErC50/72h	0.04 mg/l (senastrum capricornutum)
EC10/3h	>0.058 mg/l (activated sludge) Based on water solubility at pH 7 and T=20 °C.
EC10/6h	>0.0038 mg/l (pseudomonas putida) Based on water solubility at pH 5.2 and T=20 °C.
LC50/96h	0.042 mg/l (oncorhynchus mykiss)
LC50 (diet)	0.72 mg/kg food (laughing gull)
NOEC (reproductive toxicity)	0.0038 mg/kg food (bird)
NOEL (reproductive toxicity)	0.000385 mg/kg bw/d (bird)
LD50	0.31 mg/kg bw (mallard duck)
EC50/48h	0.25 mg/l (daphnia magna)

#### - 12.2 Persistence and degradability

- 128-37-0 2,6-di-tert-butyl-p-cresol (BHT)	
biodegradability	4.5 % (28d)
<b>56073-10-0 brodifacoum</b>	
biodegradability	Not easily biodegradable. Brodifacoum will probably partition into sewage sludge/sediment due to its high log Kow and poor water solubility.
hydrolytic half-life	>1 year (t 1/2) Stable at pH 5, 7 and 9.
photolytic half-life	0.083 days (t 1/2) Degrades rapidly by photolysis.

#### - 12.3 Bioaccumulative potential

- 56073-10-0 brodifacoum	
bioconcentration factor	BCF fish = 35645 (calculated according to TGD eq. 75, using log Kow = 6.12). BCF earthworm = 15820 (calculated according to TGD ed. 82d, using log Kow = 6.12).
octanol-water partition coefficient	log Kow = 6.12 (estimated from measured Koc).

#### - 12.4 Mobility in soil

- 56073-10-0 brodifacoum	
DT50	157 days Persistent.
organic carbon partition coefficient	Koc = 9155 l/kg (pH 7,1-7.6). Immobile in soil.
soil mobility	Under basic conditions (high pH), Brodifacoum is not likely to be adsorbed onto soils or sewage sludge due to the ionisation of the molecule. Under acidic conditions (low pH), Brodifacoum is likely to be adsorbed onto soils or sewage sludge as the molecule is in its neutral or non-ionised form.

#### - General notes:

Hazardous to wildlife.

(Contd. on page 9)

# Safety data sheet

## according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

Trade name: **Broditop Gel**

(Contd. of page 8)

Do not allow the product to reach ground water, water course or sewage system.

**- 12.5 Results of PBT and vPvB assessment**

<b>- PBT:</b>	
56073-10-0 brodifacoum	
PBT	Brodifacoum fulfils the P, B and T criteria.

<b>- vPvB:</b>	
56073-10-0 brodifacoum	
vPvB	Brodifacoum fulfils the vP criterion.

**- 12.6 Other adverse effects**

56073-10-0 brodifacoum	
.	The major environmental concern of Brodifacoum is primary and secondary poisoning of non-target animals.

**SECTION 13: Disposal considerations****- 13.1 Waste treatment methods****- Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Remove all baits after treatment and dispose of them in accordance with local requirements.

For information on disposal contact the Environment Agency (<http://www.environment-agency.gov.uk>) or SEPA (<http://www.sepa.org.uk>).**- Uncleaned packaging:****- Recommendation:** Dispose of in accordance with local requirements.**SECTION 14: Transport information**

<b>- 14.1 UN-Number</b>	
<b>- ADR, ADN, IMDG, IATA</b>	Not applicable
<b>- 14.2 UN proper shipping name</b>	
<b>- ADR, ADN, IMDG, IATA</b>	Not applicable
<b>- 14.3 Transport hazard class(es)</b>	
<b>- ADR, ADN, IMDG, IATA</b>	
<b>- Class</b>	Not applicable
<b>- 14.4 Packing group</b>	
<b>- ADR, IMDG, IATA</b>	Not applicable
<b>- 14.5 Environmental hazards:</b>	
	Not applicable.
<b>- 14.6 Special precautions for user</b>	
	Not applicable.
<b>- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
	Not applicable.
<b>- UN "Model Regulation":</b>	
	Not applicable

**SECTION 15: Regulatory information****- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****- Directive 2012/18/EU****- Named dangerous substances - ANNEX I** None of the ingredients is listed.**- Seveso category** This product is not subject to Seveso directive dispositions.

(Contd. on page 10)

# Safety data sheet

## according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

**Trade name: Broditop Gel**

(Contd. of page 9)

**- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

The product does not contain any substance included in annex XIV.

**- REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 30**- Other regulations, limitations and prohibitive regulations**

Authorisation holder:

ZAPI S.p.A. Via Terza Strada, 12 35026 Conselve (PD) Italy - Tel. +390499597737

Authorisation n° UK-2016-1041-0003

**- Substances of very high concern (SVHC) according to REACH, Article 57** None.**- Regulation (EC) n. 1005/2009: substances that deplete the ozone layer** None.**- Regulation (EC) n. 850/2004: persistent organic pollutants** None.**- Substances listed in Regulation (EC) n. 649/2012 (PIC):** None.**- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out for this mixture.**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.

**- Relevant phrases**

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

H360D May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**- Abbreviations and acronyms:**

RD50: Respiratory Decrease, 50 percent

LC0: Lethal concentration, 0 percent

NOEC: No Observed Effect Concentration

IC50: Inhibitory concentration, 50 percent

NOAEL: No Observed Adverse Effect Level

EC50: Effective concentration, 50 percent

EC10: Effective concentration, 10 percent

AEL: Acceptable Exposure Limit

AEC: Acceptable Exposure Concentration

AEL: Acceptable Exposure Limit

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 1: Acute toxicity – Category 1

Repr. 1A: Reproductive toxicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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

**- References**

- Regulation (EU) 1179/2016 (9th ATP CLP);

- Biocidal Products Committee (BPC) opinion June 2016 on the active substance;

- Assessment Report on the active substance (available at ECHA website);

**- Sources**

1. 1999/45/EC Directive and following amendments

2. 67/548/EEC Directive and following amendments

3. The E-Pesticide Manual 2.1 Version (2001)

(Contd. on page 11)

## Safety data sheet

### according to Regulation (EU) 2015/830

Printing date 06.03.2017

Revision: 06.03.2017

**Trade name: Broditop Gel**

(Contd. of page 10)

4. 2006/8/EC Directive
5. Regulation (EC) No. 1907/2006 and following amendments
6. Regulation (EC) 1272/2008 and following amendments
7. Regulation (EU) 2015/830
8. Regulation (EU) 528/2012
9. Regulation (EC) 790/2009 (1st ATP CLP)
10. Regulation (EU) 286/2011 (2nd ATP CLP)
11. Regulation (EU) 618/2012 (3rd ATP CLP)
12. Regulation (EU) 487/2013 (4th ATP CLP)
13. Regulation (EU) 944/2013 (5th ATP CLP)
14. Regulation (EU) 605/2014 (6th ATP CLP)
15. Regulation (EU) 1221/2015 (7th ATP CLP)
16. Directive 2012/18/UE (Seveso III)