

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



IKEBANA CONSUMER BROMADIOLONE (Bromadiolone 0.0029% w/w fresh bait)

Version: 5
Revision date: 27/04/2017

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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: IKEBANA CONSUMER BROMADIOLONE (Bromadiolone 0.0029% w/w fresh bait)

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

Rodenticide bait for pest control

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: QUIMICA DE MUNGUA S.A.
Address: Derio Bidea 51
City: 48100 MUNGIA
Province: VIZCAYA
Teléfono: 00 34 94 6741085
Fax: 00 34 94 4829
E-mail: info@quimunsa.com
Web: <http://www.quimunsa.com>

1.4 Emergency telephone number: Instituto Nacional de Toxicología. Madrid. + 34 91 562 04 20 (Only available during office hours; Monday-Friday; 08:00-18:00)
Toxicology National Institute (Spain): + 34 91 562 04 20

SECTION 2: HAZARDS IDENTIFICATION.

Anticoagulant product derived from coumarin that inhibits vitamin K metabolism and blocks prothrombin formation.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

STOT RE 2 : May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

Warning

H statements:

H373 May cause damage to organs through prolonged or repeated exposure.

P statements:

P102 Keep out of reach of children.
P103 Read label before use.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

Contains:

Bromadiolone

Active substances:

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Bromadiolone, 0,0029%;

2.3 Other hazards.

The product may have the following additional risks:

May form explosible dust-air mixture if dispersed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
CAS No: 9005-25-8 EC No: 232-679-6	[1] Starch	2.5 - 10 %	-	-
CAS No: 128-37-0 EC No: 204-881-4 Registration No: 01-2119565113-46-XXXX	[1] 2,6-di-tert-butyl-p-cresol	0 - 0.25 %	Aquatic Acute 1, H400 - Aquatic Chronic 1, H410	-
CAS No: 102-71-6 EC No: 203-049-8 Registration No: 01-2119486482-31-XXXX	2,2',2''-nitrioltriethanol	0 - 10 %	Eye Irrit. 2, H319	-
Index No: 607-716-00-8 CAS No: 28772-56-7 EC No: 249-205-9 Registration No: Directive 2092/92/EC	Bromadiolone	0.0005 - 0.003 %	Acute Tox. 1, H310 - Acute Tox. 1, H330 - Acute Tox. 1, H300 - Aquatic Acute 1, H400 (M=1) - Aquatic Chronic 1, H410 (M=1) - Repr. 1B, H360D - STOT RE 1, H372	Repr. 1B, H360D: C ≥ 0,003% STOT RE 2, H373: 0,0005% < C < 0,005% STOT RE 1, H372: C ≤ 0,005

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[1] Substance with a Community workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eye contact.

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If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

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

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

Substance is an anticoagulant and the risk is a potential internal haemorrhage.

Could be absorbed in contact with the skin and cause internal haemorrhage.

If swallowed serious risk of internal haemorrhage.

Other symptoms: pallor, abdominal or back pain.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

As a rule, symptomatic treatment for compensating the observed effects.

Stomach-wash if haemorrhage symptoms are not observed.

In the event of haemorrhages, inject vitamin K1, control coagulation time, and if necessary give fresh blood transfer.

Antidote: Antidote: VITAMINA K1 (Phytomenadione).

SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

5.1 Extinguishing media.

Recommended extinguishing methods.

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

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6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited. Follow legislation on occupational health and safety. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills. Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
H1	ACUTE TOXIC	5	20

7.3 Specific end use(s).

Formulated product for rodent pest control

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
Starch	9005-25-8	United Kingdom [1]	Eight hours		10 (total inhalable) 4 (respirable)
			Short term		
2,6-di-tert-butyl-p-cresol	128-37-0	United Kingdom [1]	Eight hours		10
			Short term		

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
2,6-di-tert-butyl-p-cresol CAS No: 128-37-0 EC No: 204-881-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	3,5 (mg/m ³)
2,2',2"-nitrioltriethanol CAS No: 102-71-6 EC No: 203-049-8	DNEL (Workers)	Inhalation, Long-term, Local effects	5 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Local effects	1,25 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	5 (mg/m ³)

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	DNEL (General population)	Inhalation, Long-term, Systemic effects	1,25 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	6,3 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	3,1 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	13 (mg/kg bw/day)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
2,2',2"-nitrioltriethanol CAS No: 102-71-6 EC No: 203-049-8	aqua (freshwater)	0,32 (mg/L)
	aqua (marine water)	0,032 (mg/L)
	aqua (intermittent releases)	5,12 (mg/L)
	PNEC STP	10 (mg/L)
	sediment (freshwater)	1,7 (mg/kg sediment dw)
	sediment (marine water)	0,17 (mg/kg sediment dw)
	soil	0,151 (mg/kg soil dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Fresh bait
Colour: Red
Odour: Odourless
Odour threshold: N.A./N.A.
pH: N.A./N.A.
Melting point: N.A./N.A.
Boiling Point: N.A./N.A.
Flash point: > 60 °C
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density: N.A./N.A.
Relative density: 1.15-1.25 g/cm³
Solubility: N.A./N.A.
Liposolubility: N.A./N.A.
Hydrosolubility: N.A./N.A.
Partition coefficient (n-octanol/water): N.A./N.A.
Auto-ignition temperature: N.A./N.A.
Decomposition temperature: N.A./N.A.
Viscosity: N.A./N.A.
Explosive properties: Not explosive

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Oxidizing properties: Not oxidising

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A.

Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
2,2',2"-nitrotriethanol CAS No: 102-71-6 EC No: 203-049-8	Oral	LD50	Rat	5530 mg/kg bw [1]
		LD50	Rat	6400 mg/kg bw [2]
			[1] National Technical Information Service. Vol. OTS0516797 [2] Study report, 1966.	
	Dermal	LD50	Rabbit	> 22500 mg/kg bw [1]
				[1] Union Carbide Data Sheet. Vol. 3/18/1965
	Inhalation			
Bromadiolone	Oral	LD50	Rat	0.56 mg/kw bw [1]
		LD50	Rats	1.31 mh/kg bw [2]
		LD50	Mice	1.75 mg/kg bw [3]
				[1] Bromadiolone Assessment Report [2] The Pesticide Manual, 15th Edition [3] The Pesticide Manual, 15th Edition

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CAS No: 28772-56-7 EC No: 249-205-9	Dermal	LD50 Rabbit	1.71 mg/kg bw [1]
		LD50 Rabbit	2.1 mg/kg bw [2]
		LD50 Rats	23.31 mg/kg bw [3]
		[1] Bromadiolone Assessment Report	
		[2] Reference: Unknown	
		[3] The Pesticide Manual, 15th Edition	
	Inhalation	LC50 Rat	0.43 ug/L [1]
		LC50 Rats	<0.02 mg/l [2]
		[1] Bromadiolone Assessment Report	
		[2] The Pesticide Manual, 15th Edition	

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Not conclusive data for classification.

c) serious eye damage/irritation;

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

d) respiratory or skin sensitisation;

Not conclusive data for classification.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

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

h) STOT-single exposure;

Not conclusive data for classification.

i) STOT-repeated exposure;

Product classified:

Specific target organ toxicity following a repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.

j) aspiration hazard;

Not conclusive data for classification.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
2,2',2"-nitrilotriethanol	Fish	LC50	Carassius auratus	>5000 mg/L (24 h) [1]
		LC50	Leuciscus idus	>10000 mg/l (48 h) [2]

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CAS No: 102-71-6 EC No: 203-049-8		<p>[1] Experimental result, Study meets generally accepted scientific principles. however, exposure period only 24 h instead of 96 h according to recent guidelines (e.g. OECD 203).</p> <p>[2] Study meets generally accepted scientific principles. however, exposure period only 48 h instead of 96 h according to recent guidelines (e.g. OECD 203)</p>
	Aquatic invertebrates	<p>EC50 Artemia salina 5600 mg/L (24 h) [1] EC50 Daphnia magna 2038 mg/l (24 h) [2]</p> <p>[1] Brine shrimp bioassay and seawater BOD of petrochemicals. Price KS, Waggy GT and Conway RA, 1974. [2] Results of the harmful effects of water pollutants to Daphnia magna in the 21 day reproduction test. Kuehn R, Pattard M, Pernak KD and Winter A. 1989.</p>
	Aquatic plants	<p>Colpoda EC0 Scenedesmus 160 mg/l [1] TTC quadricauda 715 mg/l (8 d) [2] EC50 Scenedesmus 750 mg/l (48 h) [3] subspicatus</p> <p>[1] Handbook of Environmental Data on Organic Chemicals, 2nd ed. Van Nostrand Reinhold Co., New York, USA: 518-519. [2] Testing of substances for their toxicity threshold: Model organisms Microcystis(Diplocystis) aeruginosa and Scenedesmus quadricauda. [3] Results of the harmful effects of water pollutants to green algae (Scenedesmus subspicatus) in the cell multiplication inhibition test.</p>
Bromadiolone CAS No: 28772-56-7 EC No: 249-205-9	Fish	<p>Rainbow trout LC50 (Onoryhnchus 2.86 mg/L (96h) [1] LC50 mykiss) 2.2 mg/l (96 h) [2] Fish</p> <p>[1] Bromadiolone Assessment Report [2] Office of Pesticide Programs 2000. Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)). Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.</p>
	Aquatic invertebrates	<p>EC50 Daphnia magna 5.79 mg/L (48h) [1] EC50 Crustaceans 1.12 mg/l (48 h) [2]</p> <p>[1] Bomadiolone Assessment Report [2] Office of Pesticide Programs 2000. Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)). Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.</p>
	Aquatic plants	<p>ErC50 Algae 1.14 mg/L (72h) [1] (Pseudokirchneriel la subcapitata)</p> <p>[1] Bromadiolone Assessment Report</p>

12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potencial.

Information about the bioaccumulation of the substances present.

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Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
2,2',2"-nitrioltriethanol N. CAS: 102-71-6 EC No: 203-049-8	-1	-	-	Very low

12.4 Mobility in soil.

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number.

Transportation is not dangerous.

14.2 UN proper shipping name.

Description:

ADR: Transportation is not dangerous.

IMDG: Transportation is not dangerous.

ICAO: Transportation is not dangerous.

14.3 Transport hazard class(es).

Transportation is not dangerous.

14.4 Packing group.

Transportation is not dangerous.

14.5 Environmental hazards.

Transportation is not dangerous.

14.6 Special precautions for user.

Transportation is not dangerous.

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

Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): H1

Information related to Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products:
Numbers/approval status/national authorization: ES-AA-2013-14-00109
Numbers/approval status/European authorization: N.A.

Product Type	Group
Rodenticides	Pest control

Active substances	Concentration %
Bromadiolone CAS No: 28772-56-7 EC No: 249-205-9	0,0029

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as toxic to reproduction category 1A or 1B (Table 3.1) or toxic to reproduction category 1 or 2 (Table 3.2) and listed as follows: - Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5 - Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6	1. Shall not be placed on the market, or used, - as substances, - as constituents of other substances, or, - in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: - either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, - the relevant concentration specified in Directive 1999/45/EC where no specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: 'Restricted to professional users'. 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: - motor fuels which are covered by Directive 98/70/EC, - mineral oil products intended for use as fuel in mobile or fixed combustion plants, - fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Directive 1999/45/EC; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H319	Causes serious eye irritation.
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.

Classification codes:

Acute Tox. 1 [Dermal] : Acute toxicity (Dermal), Category 1
Acute Tox. 1 [Inhalation] : Acute toxicity (Inhalation), Category 1
Acute Tox. 1 [Oral] : Acute toxicity (Oral), Category 1
Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1
Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1
Eye Irrit. 2 : Eye irritation, Category 2
Repr. 1B : Reproductive toxicant, Category 1B
STOT RE 1 : Specific target organ toxicity following a repeated exposure, Category 1
STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2

Sections changed compared with the previous version:

1,2,3,4,5,8,11,12,15,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

BCF: Bioconcentration factor.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50: Half maximal effective concentration.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
Log Pow: Logarithm of the partition octanol-water.
NOEC: No observed effect concentration.
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.