

Thyborønvej 78 DK-7673 Harboøre

Denmark +45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 4

Material group	1FB/1310-05	Page 1 of 14
Product name	1310-05, FLUTRIAFOL 125 g/I SC	
		March 2017
Safety data sheet	according to EU Reg. 1907/2006 as amended	Supersedes September 2015

SAFETY DATA SHEET 1310-05, FLUTRIAFOL 125 g/I SC

Revision: Sections containing a revision or new information are marked with a .

♣ SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Contains 1,2-benzisothiazol-3(2H)-one

1.2. Relevant identified uses of the substance or mixture and uses

advised against Can be used as fungicide only.

1.3. Details of the supplier of the safety data sheet

CHEMINOVA A/S Thyborønvej 78

DK-7673 Harboøre Denmark

SDS.Ronland@fmc.com

1.4. Emergency telephone number

<u>Company</u> (+45) 97 83 53 53 (24 h; for emergencies only)

Medical emergencies:

Austria: +43 1 406 43 43 Norway: +47 22 591300 Belgium: +32 70 245 245 Poland: +48 22 619 66 54 Bulgaria: +359 2 9154 409 +48 22 619 08 97

Czech Republic: +420 224 919 293 Portugal: 808 250 143 (in Portugal only)

+420 224 915 402 +351 21 330 3284

Denmark: +45 82 12 12 12 Romania: +40 21318 3606
France: +33 (0) 1 45 42 59 59 Slovakia: +421 2 54 77 4 166
Finland: +358 9 471 977 Slovenia: +386 41 650 500
Hungary: +36 80 20 11 99 Spain: +34 91 562 04 20
Ireland (Republic): +352 1 809 2166 Sweden: +46 08-331231

Italy: +39 02 6610 1029 112
Lithuania: +370 523 62052 Switzerland: 145

+370 687 53378 United Kingdom: 0870 600 6266 (in the UK only) Luxembourg: +352 8002 5500 U.S.A. & Canada: +1 800 / 331-3148 (PROSAR)

Netherlands: +31 30 274 88 88 All other countries: +1 651 / 632-6793 (PROSAR - Collect)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Sensitisation – skin: Category 1B (H317)

Hazards to the aquatic environment, chronic: Category 1 (H410)



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Health hazards The product may be an allergic sensitizer to certain individuals. It is

mildly irritating to skin and eyes.

Environmental hazards The product is toxic to aquatic organisms.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Contains 1,2-benzisothiazol-3(2H)-one

Hazard pictograms (GHS07, GHS09)





Signal word Warning

Hazard statements

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Supplementary hazard statement

EUH401 To avoid risks to human health and the environment, comply with the

instructions of use.

Precautionary statements

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1.	Substances	The product is a mixture, not a substance

3.2. **Mixtures** See section 16 for full text of hazard statements.

Active ingredient

Flutriafol Content: 12% by weight

IUPAC name(RS)-2,4'-Difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol

ISO name Flutriafol



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Classification of the ingredient Acute oral toxicity: Category 4 (H302)

Hazards to the aquatic environment, chronic: Category 2 (H411)

Structural formula

Reportable ingredients	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Alcohols, C13-15, branched and linear, ethoxylated	8	157627-86-6	NLP no.: 500-337-8	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)
Propane-1,2-diol Reg. no. 01-2119456809-23	7	57-55-6	EINECS no.: 200-338-0	No classification
Sodium alkylnaphthalenesulfonate- formaldehyde condensate	3	577773-56-9	None	Eye Irrit. 2 (H319)
1,2-Benzisothiazol-3(2H)-one	max. 0.02	2634-33-5	EINECS no.: 220-120-9	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400)

SECTION 4: FIRST AID MEASURES

4.1.	Inhalation	If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
	Skin contact	Immediately remove contaminated clothing and footwear. Flush skin with water. Wash with water and soap. See physician if irritation develops.
	Eye contact	Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. See physician if irritation persists.
	Ingestion	Let the exposed person rinse mouth and let him/her drink several



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glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Get medical attention immediately. When fed to animals at high dosage, similar formulations of flutriafol 4.2. Most important symptoms and effects, both acute and delayed caused salivation, depression of activity, muscle spasms, ataxia and increased body temperature. 4.3. Indication of any immediate Immediate medical attention is required in case of ingestion medical attention and special treatment needed It may be helpful to show this safety data sheet to physician. A specific antidote against this substance is not known. Treatment is Note to physician as for a general chemical. Gastric lavage and/or administration of

activated charcoal can be considered.

SECTION 5: FIRE-FIGHTING MEASURES

5.2. Special hazards arising from the substance or mixture

The essential breakdown products are volatile, malodorous, toxic, irritant and inflammable compounds such as hydrogen fluoride, nitrogen oxides, sulphur dioxide, carbon monoxide, carbon dioxide and various fluorinated organic compounds.

5.3. Advice for firefighters

Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.

In case of large spill (involving 10 tonnes of the product or more):

- 1. use personal protection equipment; see section 8
- 2. call emergency telephone no.; see section 1
- 3. alert authorities.

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and rubber boots.

Stop the source of the spill immediately if safe to do so. Avoid and reduce mist formation as much as possible.



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6.2. Environmental precautions

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and materials for containment and cleaning up

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).

Surface water drains should be covered if appropriate. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, hydrated lime, Fuller's earth or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with much water and industrial detergent. Absorb wash liquid onto absorbent and transfer to suitable containers. The used containers should be properly closed and labelled.

Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

6.4. Reference to other sections

See subsection 8.2. for personal protection. See section 13 for disposal.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

In an industrial environment it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job. Wash protective clothing and protective equipment with water and soap after each use.



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Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

7.2. Conditions for safe storage, including any incompatibilities

Storage at temperatures not exceeding 25°C is recommended. Protect from frost, fire and heat.

Keep in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

7.3. **Specific end use(s)**

The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

1.5 mg/m³ (8-hr TWA) for flutriafol is recommended by the

manufacturer.

Year

Propane-1,2- AIHA (USA) WEEL 2015 10 mg/m³

diol MAK (Germany) 2014 Cannot be established at present

HSE (UK) WEL 2011 8-hr TWA

150 ppm (474 mg/m³) total (vapour and particulates)

10 mg/m³ (particulates)

However, other personal exposure limits defined by local regulations may exist and must be observed.

Flutriafol

PNEC, aquatic environment 6.2 μg/l

Propane-1,2-diol

8.2. **Exposure controls** When used in a closed system, personal protection equipment will not

be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping systems non-

hazardous before opening.



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The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the use solution, but can be recommended for final use as well.

In cases of incidental high exposure, maximal personal protection equipment may be necessary, such as respirator, face mask, chemical resistant coveralls.



Respiratory protection

The product does not automatically present an airborne exposure concern during normal handling, but in the event of an accidental discharge of the material which produces a heavy vapour or mist, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.



Protective gloves

Wear chemical resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton. The breakthrough times of these materials for the product are unknown, but it is expected that they will give adequate protection if the work done manually is kept limited.



Eye protection

Wear safety glasses. It is recommended to have an eye wash fountain immediately available in the workplace when there is a potential for eye contact.



Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on physical and chemical properties

Appearance Off-white/brown liquid (suspension in water)
Odour Characteristic odour between fish- and glue-like

1% dilution in water: 6.5 at 25°C

Melting point/freezing point $< 0^{\circ}$ C Initial boiling point and boiling range 99° C

Upper/lower flammability or

Vapour pressure Flutriafol : 7.1 x 10⁻⁹ Pa at 20°C



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Density: 1.06 g/ml at 20°C

Solubility(ies) Solubility of **flutriafol** at 21°C in:

acetone 114 - 133 g/ln-heptane < 10 g/l

n-heptane < 10 g/l water 130 mg/l at 20°C

Flutriafol : $\log K_{ow} = 2.29$

Partition coefficient n-octanol/water Autoignition temperature

Not determined

Decomposition temperature Not determined

Viscosity The product is a non-newtonian liquid. Viscosity is dependent on

shear rate.

83 - 560 mPa.s at 20°C 68 - 455 mPa.s at 40°C

9.2. Other information

Miscibility The product is dispersible in water.

SECTION 10: STABILITY AND REACTIVITY

temperatures.

10.3. **Possibility of hazardous reactions** None known.

10.4. **Conditions to avoid** Heating of the product will evolve harmful and irritant vapours.

10.5. **Incompatible materials** None known.

10.6. **Hazardous decomposition products** See subsection 5.2.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. **Information on toxicological effects** *= Based on available data, the classification criteria are not met.

<u>Product</u>

Acute toxicity The product is not considered as harmful by ingestion, skin contact or

by inhalation. * Because of the consistency of the product it is not likely that a lethal concentration in air can be obtained, but signs of toxicity may occur at the highest obtainable concentration. The acute

toxicity is measured as:

Route(s) of entry - ingestion LD_{50} , oral, rat: > 3000 mg/kg (method OECD 423)

- skin LD_{50} , dermal, rat: > 4000 mg/kg (method OECD 402)

- inhalation LC_{50} , inhalation, rat: > 2.10 mg/l/4 h (method OECD 403)



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Skin corrosion/irritation	Not irritating to skin (method OECD 404). *	
Serious eye damage/irritation	Mildly irritating to eyes (method OECD 405).	
Respiratory or skin sensitisation	Test results on the product are mixed: Buehler test: negative (method OECD 406) Local Lymph Node Assay: positive (method OECD 429) To our knowledge, no cases of allergy in humans have been reported	
Germ cell mutagenicity	The product contains no ingredient known to be mutagenic. *	
Carcinogenicity	The product contains no ingredient known to be carcinogenic. *	
Reproductive toxicity	The product contains no ingredient found to have adverse effects on reproduction. *	
STOT – single exposure	To our knowledge, no specific effects have been observed after single exposure. *	
STOT – repeated exposure	The following is found for the active ingredient flutriafol: Target organ: liver Repeated exposure to flutriafol may cause liver damage. The LOEL for this effect has been found to be approx. 150 mg flutriafol/kg bw/day in a 90-day feeding study in rats. *	
Aspiration hazard	The product does not present an aspiration pneumonia hazard. *	
Symptoms and effects, acute and delayed	To our knowledge, adverse effects in humans have not been reported. When fed to animals at high dosage, similar compounds caused salivation, depression of activity, muscle spasms, ataxia and increased body temperature.	
Flutriafol Toxicokinetics, metabolism and distribution	Flutriafol is rapidly absorbed after oral intake. It is widely distributed in the body, but it preferably binds to red blood cells. Metabolism is almost complete. It is rapidly excreted. There is no evidence of accumulation.	
Acute toxicity	The substance is harmful by ingestion. It is considered as less harmful by skin contact and by inhalation. The acute toxicity is measured as:	
Route(s) of entry - ingestion	LD ₅₀ , oral, rat: 300 - 2000 mg/kg (method OECD 423)	
- skin	LD_{50} , dermal, rat: > 2000 mg/kg (method OECD 402) *	
- inhalation	LC_{50} , inhalation, rat: > 5.0 mg/l/4 h (method OECD 403) *	
Skin corrosion/irritation	Not irritating to skin (method OECD 404). *	
Serious eye damage/irritation	Not irritating to eyes (method OECD 405). *	



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Respiratory or skin sensitisation ... Not sensitising (method OECD 429). *

Alcohols, C13-15, branched and linear, ethoxylated

skin contact. * The acute toxicity is measured as:

Route(s) of entry - ingestion LD_{50} , oral, rat: > 2000 mg/kg

skin LD₅₀, dermal, rat: not available
 inhalation LC₅₀, inhalation, rat: not available

Serious eye damage/irritation The product is severely irritating to eyes (method OECD 405).

<u>Sodium alkylnaphthalenesulphonate-formaldehyde condensate</u>

Route(s) of entry - ingestion LD_{50} , oral, rat: > 5000 mg/kg

- skin LD_{50} , dermal, rat: not available - inhalation LC_{50} , inhalation, rat: not available

Skin corrosion/irritation May be míldly rritating to skin. *

Serious eye damage/irritation Irritating to eyes.

STOT – single exposure Inhalation of dust can cause irritation of airways. It is not clear if the

criteria for classification are met.

1,2-Benzisothiazol-3(2H)-one

Acute toxicity The substance is harmful by ingestion.

Route(s) of entry - ingestion LD₅₀, oral, rat (male): 670 mg/kg

LD₅₀, oral, rat (female): 784 mg/kg

(method OPPTS 870.1100, measured on 73% solution)

- skin LD_{50} , dermal, rat: > 2000 mg/kg *

(method OPPTS 870.1200, measured on 73% solution)

- inhalation LC₅₀, inhalation, rat: not available

Serious eye damage/irritation Severely irritating to eyes (method OPPTS 870.2400).

Respiratory or skin sensitisation ... Moderate dermal sensitizer to guinea pigs (method OPPTS 870.2600).

The substance appears to be significantly more sensitising to humans.

SECTION 12: ECOLOGICAL INFORMATION



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harmful to bees. It is not considered as harmful to birds and soil

			harmful to bees. It is not considered as harmful to birds and soil micro- and macroorganisms.		
	The ecotoxicity of the product is measured as:				
	- Algae	Green algae (Pseud	okirchneriella subcapitata)	. 72-h E _r C ₅₀ : 10 mg/l	
		Diatoms (Skeletone	ma costatum)	. 72-h E _r C ₅₀ : 4.7 mg/l	
	- Plants	Duckweed (Lemna gibba)		. 7-day EC ₅₀ : 53 mg/l 7-day NOEC: 1.1 mg/l	
	- Bees	Honeybee (Apis me	ellifera)	. 48-h LD_{50} , oral: > 100 µg/bee	
	The following dat	a have been measure	d on similar products:		
	- Fish	Rainbow trout (Sala	no gairdnerii)	. 96-h LC ₅₀ : 7.9 mg/l	
	- Invertebrates	Daphnids (Daphnia	magna)	. 48-h EC ₅₀ : 7.5 mg/l 21-day NOEC: 0.1 mg/l	
	- Birds	Japanese quail (Cot	urnix coturnix japonica)	. 14-day LD_{50} : > 2000 mg/kg bw	
12.2.	Persistence and o	legradability	vary with circumstances, but are The product contains small amo readily biodegradable and may r	able. Primary degradation half-lives usually over 1 year in soil and water. unts of other ingredients which are not not be degradable in a waste water	
12.3.	Bioaccumulative	potential		partition coefficient. accumulate. The bioaccumulation s 7 for whole fish (rainbow trout).	
12.4.	.4. Mobility in soil		Flutriafol has moderate mobility in soil. Absorption depends on soil pH and organic matter content.		
12.5.	Results of PBT a assessment		None of the ingredients meets the criteria for being PBT or vPvB.		
12.6.	.6. Other adverse effects		Other relevant hazardous effects in the environment are not known.		
SECT	TION 13: DISPOS	AL CONSIDERATI	IONS		
13.1.	.1. Waste treatment methods		Remaining quantities of the matshould be regarded as hazardous	erial and empty but unclean packaging waste.	
			Disposal of waste and packaging all applicable local regulations.	gs must always be in accordance with	

13.1. Waste treatment methods		should be regarded as hazardous waste.	
		Disposal of waste and packagings must always be in accordance with all applicable local regulations.	
	Disposal of product	According to the Waste Framework Directive (2008/98/EC),	

possibilities for reuse or reprocessing should first be considered. If this

is not feasible, the material can be disposed of by removal to a



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licensed chemical destruction plant or by controlled incineration with flue gas scrubbing.

Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Disposal of packaging

It is recommended to consider possible ways of disposal in the following order:

- 1. Reuse or recycling should first be considered. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
- 2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
- 3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
- 4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

♣ SECTION 14: TRANSPORT INFORMATION

ADR/RID/IMDG/IATA/ICAO classification

14.1.	UN number	3082
14.2.	UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (flutriafol)
14.3.	Transport hazard class(es)	9
14.4.	Packing group	III
14.5.	Environmental hazards	Marine pollutant
14.6.	Special precautions for user	Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment.
14.7.	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	The product is not transported in bulk by ship.

SECTION 15: REGULATORY INFORMATION

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

Seveso category (Dir. 2012/18/EU): dangerous for the environment.

Young people under the age of 18 are not allowed to work with the product.

All ingredients are covered by EU chemical legislation.



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15.2. Chemical safety assessment A chemical safety assessment is not required to be included for this product.

♣ SE

ECTION 16: OTHER INFORMATION		
Relevant changes in the safety data sheet	Minor co	rrections only.
List of abbreviations	AIHA	American Industrial Hygiene Association
	CAS	Chemical Abstracts Service
	Dir.	Directive
	DNEL	Derived No Effect Level
	EC	European Community
	EC_{50}	50% Effect Concentration
	E_rC_{50}	50% Effect Concentration based on growth rate
	EINECS	European INventory of Existing Commercial Chemical
		Substances
	GHS	Globally Harmonized classification and labelling System
		of chemicals, Fifth revised edition 2013
	HSE	Health & Safety Executive, UK
	IBC	International Bulk Chemical code
	ISO	International Organisation for Standardization
	IUPAC	International Union of Pure and Applied Chemistry
	LC_{50}	50% Lethal Concentration
	LD_{50}	50% Lethal Dose
	LOEL	Lowest Observed Effect Level
	MAK	Maximale Arbeitspaltz-Konzentration
	MARPO	L Set of rules from the International Maritime Organisation
		(IMO) for prevention of sea pollution
	NLP	No Longer Polymer
	NOEC	No Observed Effect Concentration
	n.o.s.	Not otherwise specified
	OECD	Organisation for Economic Cooperation and Development
	OPPTS PBT	Office of Prevention, Pesticides and Toxic Substances
	PNEC	Persistent, Bioaccumulative, Toxic Predicted No Effect Concentration
	Reg.	Registration, or
	Reg.	Regulation
	SC	Suspension Concentrate
	STOT	Specific Target Organ Toxicity
	TLV	Threshold Limit Value
	TWA	Time Weighed Average
	vPvB	very Persistent, very Bioaccumulative
	WEEL	Workplace Environmental Exposure Level
	WEL	Workplace Exposure Limit
	WHO	World Health Organisation
References	Data measured on this and a similar product are unpublished company	

can be found several places.

data. Data on ingredients are available from published literature and



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Method for classification	Sensitisation – skin: test data Hazards to the aquatic environment: read-across	
Used hazard statements	H302 H315 H317 H318 H319 H400 H410 H411 H412 EUH401	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. To avoid risks to human health and the environment, comply with the instructions of use
Advice on training	This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.	

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product vary and situations unforeseen by Cheminova A/S may exist. The user has to check the validity of the information under local circumstances.

Prepared by: Cheminova A/S / GHB