

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830Date of issue: 11/06/2015Revision date: 13/07/2015Supersedes: 11/06/2015

Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** : Substance Product form Bifenthrin techn. min 95% Name 607-699-00-7 EC index no : 82657-04-3 CAS No Type of product : Biocide Formula : C23H22CIF3O2 Biphenthrin / Brigade / Capture / 2-Methylbiphenyl-3-ylmethyl (1RS,2RS)-2-(Z)-(2-chloro-3,3,3-Synonyms · trifluoro-1-propenyl)-3,3-dimethylcyclopropanecarboxylate / 2-Methylbiphenyl-3-ylmethyl (Z)-(1RS,3RS)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate / Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel- / Cyclopropanecarboxylic acid, 3-[(1Z)-2chloro-3,3,3-trifluoro-1-propen-1-yl]-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel- / 2-Methyl-1,1'-biphenyl-3-ylmethyl (Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2dimethylcyclopropane carboxylate / [1.alpha.,3.alpha.(Z)]-(.+-.)-3-(2-Chloro-3,3,3-trifluoro-1propenyl)-2,2-dimethylcyclopropanecarboxylic acid (2-methyl[1,1'-biphenyl]-3-yl)methyl ester Relevant identified uses of the substance or mixture and uses advised against 1.2. 1.2.1. **Relevant identified uses** : Professional use Main use category Use of the substance/mixture : Pesticide 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Simonis B.V. 7000 AP Doetinchem - The Netherlands T +31 314 333 700 - F +31 314 344 167 agrochem@simonisbv.nl - http://www.simonisbv.nl/ 1.4. **Emergency telephone number** Organisation/Company Country Address **Emergency number** Guy's & St Thomas' Poisons Unit Avonley Road SE14 5ER London UNITED KINGDOM 0870 243 2241 Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust **SECTION 2: Hazards identification** Classification of the substance or mixture 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] H351 Carc. 2 Acute Tox. 3 (Inhalation) H331 Acute Tox. 2 (Oral) H300 STOT RE 1 H372 H317 Skin Sens, 1B

Full text of H-phrases: see section 16

2.2. Label elements

Aquatic Acute 1

Aquatic Chronic 1

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

H400 (M=10000)

H410 (M=100000)

Signal word (CLP)

: Danger

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GHS06

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Hazard statements (CLP)	 H351 - Suspected of causing cancer H331 - Toxic if inhaled H300 - Fatal if swallowed H372 - Causes damage to organs through prolonged or repeated exposure H317 - May cause an allergic skin reaction H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	 P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe gas, vapours, dust, mist P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER P302+P352 - IF ON SKIN: Wash with plenty of water, soap P308+P313 - IF exposed or concerned: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards Adverse physicochemical, human health and environmental effects : Very toxic to aquatic life with long lasting effects. May cause an allergic skin reaction. Toxic if inhaled. Fatal if swallowed. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Name		: Bifenthrin techn. min 95%
CAS No		: 82657-04-3
EC index	no	: 607-699-00-7

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bifenthrin techn. min 95%	(CAS No) 82657-04-3 (EC index no) 607-699-00-7	> 95	Carc. 2, H351 Acute Tox. 3 (Inhalation), H331 Acute Tox. 2 (Oral), H300 STOT RE 1, H372 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=100000)

Full text of H-phrases: see section 16

3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).		
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.		
First-aid measures after skin contact	: Remove contaminated clothes. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.		
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.		
First-aid measures after ingestion	: Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Rinse mouth thoroughly with water. Get immediate medical advice/attention.		
4.2. Most important symptoms and effective statements and effective sta	ffects, both acute and delayed		
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.		
	Indication of any immediate medical attention and special treatment needed		
Treat symptomatically.			

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SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the su	bstance or mixture	
Fire hazard	: This material is combustible, but will not ignite readily.	
Explosion hazard	: No direct explosion hazard.	
Hazardous decomposition products in case of fire	: For further information, refer to section 10 : "Stability and Reactivity".	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any	
Protection during firefighting	chemical fire. Prevent fire-fighting water from entering environment.Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6: Accidental release mea	sures	
	uipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	 Evacuate unnecessary personnel. Avoid contact with skin and eyes. Do not breathe dust, vapours, mist. Only qualified personnel equipped with suitable protective equipment may intervene. 	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection. For further information refer to section 8 :" Exposure-controls/personal protection".	
Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containing	ent and cleaning up	
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.	
Methods for cleaning up	: Take up liquid spill into absorbent material. Recover mechanically the product. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 8 :" Expos	sure-controls/personal protection". Concerning disposal elimination after cleaning, see item 13.	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Concerning personal protective equipment to use, see item 8. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store locked up.	
Incompatible products	: Strong bases. Strong acids.	
Storage temperature	: 0 - 30 °C	
Heat and ignition sources	: Keep away from heat and direct sunlight.	
7.3. Specific end use(s)		
Pesticide.		
SECTION 8: Exposure controls/pers	onal protection	
8.1 Control parameters		

8.1. Control parameters

No additional information available

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8.2. Exposure controls		
Appropriate engineering controls	: Ensure good ventilation of the work station. Avoid all unnecessary exposure.	
Personal protective equipment	: Protective clothing. Gloves. Safety glasses. Gas mask.	
Hand protection	: Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Since the product consists of several substances, it is possible to estimate the durability of the glove material beforehand and it therefore needs to be tested before use. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.	
Eye protection	: Safety glasses	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: Wear respiratory protection	

Other information

: Do not eat, drink or smoke during use.

9.1. Information on basic physical and	0.1. Information on basic physical and chemical properties	
Physical state	: Liquid	
Appearance	: Viscous liquid. Waxy solid.	
Colour	: Off-white.	
Odour	: slight. Sweet.	
Odour threshold	: No data available	
рН	: 7,4	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 68 - 70,6 °C	
Freezing point	: No data available	
Boiling point	: 320 - 350 °C	
Flash point	: 165 °C	
Auto-ignition temperature	: 204 - 260 °C	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: 0,00178 mPa 20°C	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 1,21 g/cm ³ 25 °C	
Solubility	: Water: < 1 μg/l 20 °C	
Log Pow	: No data available	
Log Kow	: >6	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		
No additional information available		

SECTIO	DN 10: Stability and reactivity
10.1.	Reactivity
No additio	onal information available
10.2.	Chemical stability
Stable un	der normal conditions.

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10.3.	Possibility of hazardous reactions	
No dangerous reactions known.		
10.4.	Conditions to avoid	
Extremely high or low temperatures. Keep out of direct sunlight.		
10.5.	Incompatible materials	
No additional information available		
10.6.	Hazardous decomposition products	
No decomposition if stored normally.		

SECTION 11: Toxicological information Information on toxicological effects

11.1. Information on toxicological effects			
Acute toxicity	: Inhalation: Toxic if inhaled. Oral: Fatal if swallowed.		
Bifenthrin techn. min 95% (82657-04-3)			
LD50 oral rat	54,5 mg/kg		
LD50 dermal rat	790 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg		
LC50 inhalation rat (mg/l)	0,61 mg/l (Exposure time: 1 h)		
Skin corrosion/irritation	: The product is not considered to be irritating to the skin		
	pH: 7,4		
Serious eye damage/irritation	: The product is not considered to be irritating to the eyes		
	pH: 7,4		
Respiratory or skin sensitisation	: Not specifically applicable		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Suspected of causing cancer.		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.		
Aspiration hazard	: Not classified		

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	
Bifenthrin techn. min 95% (82657-04-3)		
LC50 fishes 1	0,0001 - 0,00019 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])	
LC50 fish 2	0,0003 - 0,00038 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])	
EC50 Daphnia 1	0,00135 - 0,00195 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	

12.2. Persistence and degradability		
Bifenthrin techn. min 95% (82657-04-3)		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Bifenthrin techn. min 95% (82657-04-3)		
Log Kow	> 6	
Bioaccumulative potential	Not established.	
12.4. Mobility in soil		
No additional information available		
2.5. Results of PBT and vPvB assessment		
Bifenthrin techn. min 95% (82657-04-3)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

12.6. Other adverse effects

Additional information

: Avoid release to the environment

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SECTION 13: Disposal consideration	
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 02 01 08* - agrochemical waste containing dangerous substances
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No. (ADR)	: 3349
UN-No. (IMDG)	: 3349
UN-No. (IATA)	: 3349
UN-No. (ADN)	: 3349
UN-No. (RID)	: 3349
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	
Proper Shipping Name (IMDG)	: PYRETHROID PESTICIDE, SOLID, TOXIC
Proper Shipping Name (IATA)	: Pyrethroid pesticide, solid, toxic
Proper Shipping Name (ADN)	: PYRETHROID PESTICIDE, SOLID, TOXIC
Proper Shipping Name (RID)	: PYRETHROID PESTICIDE, SOLID, TOXIC
Transport document description (ADR)	: UN 3349 PYRETHROID PESTICIDE, SOLID, TOXIC (Bifenthrin techn. min 95%), 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 3349 PYRETHROID PESTICIDE, SOLID, TOXIC, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1
Transport hazard class(es) (IMDG)	: 6.1
Danger labels (IMDG)	: 6.1
1474	
Transport hazard class(es) (IATA)	: 6.1
Hazard labels (IATA)	: 6.1
ADN	
Transport hazard class(es) (ADN)	: 6.1
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Danger labels (ADN)



RID

Transport hazard class(es) (RID) Danger labels (RID)

14.6 Encoial processitions for u





14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: II
Packing group (RID)	: II
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: T7
Special provisions (ADR)	: 61, 274, 648
Limited quantities (ADR)	: 500g
Excepted quantities (ADR)	: E4
Packing instructions (ADR)	: P002, IBC08
Special packing provisions (ADR)	: B4
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAH, L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V11
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9, S19
Hazard identification number (Kemler No.)	: 60
Orange plates	60
	3349
Tunnel restriction code (ADR)	: D/E

EAC code

: 2X

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- Transport by sea	
Special provisions (IMDG)	: 61, 274
Limited quantities (IMDG)	: 500 g
Excepted quantities (IMDG)	: E4
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B2, B4
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Stowage and segregation (IMDG)	: Clear of living quarters.
Properties and observations (IMDG)	: Solid pesticides present a very wide range of toxic hazard. Toxic if swallowed, by skin contact
	or by inhalation.
MFAG-No	: 151
- Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y644
PCA limited quantity max net quantity (IATA)	: 1kg
PCA packing instructions (IATA)	: 669
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 676
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A3, A5
ERG code (IATA)	: 6L
- Inland waterway transport	
Classification code (ADN)	: T7
Special provisions (ADN)	: 61, 274, 648, 82
Limited quantities (ADN)	: 500 g
Excepted quantities (ADN)	: E4
Equipment required (ADN)	: PP, EP
	: 2
Number of blue cones/lights (ADN)	. 2 : No
Not subject to ADN	. NO
- Rail transport	
Classification code (RID)	: T7
Special provisions (RID)	: 61, 274, 648
Limited quantities (RID)	: 500g
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W11
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE9, CE12
Hazard identification number (RID)	: 60
Carriage prohibited (RID)	: No

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.7.

Not applicable

SECTION 15: Regulatory information

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

15.1.1. **EU-Regulations**

No REACH Annex XVII restrictions

Bifenthrin techn. min 95% is not on the REACH Candidate List

Bifenthrin techn. min 95% is not on the REACH Annex XIV List

Type of product (Biocide)

18 - Insecticides, acaricides and products to control other arthropods

15.1.2. National regulations

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Subject to reporting requirements of United States SARA Section 313 Listed on INSQ (Mexican national Inventory of Chemical Substances)

Chemical safety assessment 15.2.

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

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

CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
PBT	Persistent Bioaccumulative Toxic	
vPvB	Very Persistent and Very Bioaccumulative	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai	
LC50	Median lethal concentration	
LD50	Median lethal dose	
SDS	Safety Data Sheet	
	CAS (Chemical Abstracts Service) number	
	EG-nr.: EINECS- en ELINCS-number	
	EINECS: European Inventory of Existing Commercial Substances	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE	

Other information

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
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Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Skin Sens. 1B	Sensitisation — Skin, category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H300	Fatal if swallowed
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H351	Suspected of causing cancer
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

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product