

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 18-1-2016 Revision date: 27-3-2017 Supersedes: 18-1-2016 Version: 2.0

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

#### 1.1. Product identifier

Product form : Substance

Substance name : Bifenazate Tech Mix Min.97%

Chemical name : Isopropyl 3-(4-methoxybiphenyl-3-yl)carbazate

EC Index-No. : 607-715-00-2
EC-No. : 442-820-5
CAS-No. : 149877-41-8
Type of product : Biocide

Synonyms : Isopropyl 3-(4-methoxybiphenyl-3-yl)carbazate / 1-Methylethyl 2-(4-methoxy[1,1'-biphenyl]-3-

yl)hydrazinecarboxylate

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use Use of the substance/mixture : Acaricide.

#### 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

Country	Organisation/Company	Address	Emergency number	Remark
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for the purpose of informing medical personnel in cases of acute intoxications
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for the purpose of informing medical personnel in cases of acute intoxications

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin sensitisation, Category 1 H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335
Specific target organ toxicity — Repeated exposure, Category 2 H373
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Very toxic to aquatic life with long lasting effects. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Harmful if inhaled. May be harmful if inhaled. May be harmful in contact with skin.

#### 2.2. Label elements

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

Hazard pictograms (CLP)







GHS08 GI

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Signal word (CLP) : Warning

Hazard statements (CLP) H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

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

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) P273 - Avoid release to the environment

P280 - Wear eye protection, protective clothing, protective gloves P312 - Call a doctor, a POISON CENTER if you feel unwell

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P501 - Dispose of contents/container to an approved waste disposal plant

#### 2.3. Other hazards

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**

#### **Substances**

Name : Bifenazate Tech Mix Min.97%

CAS-No . 149877-41-8 EC-No. : 442-820-5 EC Index-No. : 607-715-00-2

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3-yl)hydrazinecarboxylate	(CAS-No.) 149877-41-8 (EC-No.) 442-820-5 (EC Index-No.) 607-715-00-2	>= 97	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

#### **Mixtures**

Not applicable

#### **SECTION 4: First aid measures**

### **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. Get medical advice if skin

irritation persists.

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if First-aid measures after eye contact

present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness

persists.

: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell. First-aid measures after ingestion

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

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause an allergic skin reaction. May be harmful in contact with skin.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms/effects after ingestion : May be harmful if inhaled.

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

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

#### **Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Non flammable.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of

fire

Under fire conditions, hazardous fumes will be present. Carbon oxides (CO, CO2). Nitrogen

oxides.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Prevent fire fighting water from entering the environment.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment 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/fume/gas/mist/vapours/spray.

#### 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

Do not allow to enter drains or water courses.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Mechanically recover the product.

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: "Exposure-controls/personal protection". Concerning disposal elimination after cleaning, see section 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. Avoid contact with skin and eyes. Wear personal protective equipment. 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. Store in a well-ventilated place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Heat and ignition sources : Keep away from heat and direct sunlight.

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

No additional information available

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

## 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Gloves. Protective clothing. Safety glasses. Dust formation: dust mask.

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#### 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 not possible to estimate the durability of the glove material beforehand. Thus it needs to be tested before use

### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Wear respiratory protection









#### Other information:

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : Off-white. white to slightly yellow.

Odour : characteristic.
Odour threshold : No data available

pH : 7

Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available

Flash point : 104 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 1,01 g/cm³

Solubility : In water, the material disperses.

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 550 mPa.s
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable under normal conditions of use.

## 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

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#### 10.4. Conditions to avoid

Extremely high or low temperatures. Keep out of direct sunlight.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Combustion generates: Carbon oxides (CO, CO2). Nitrogen oxides (NOx). Gas/vapours, harmful.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Inhalation:dust,mist: Harmful if inhaled.

bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3-yl)hydrazinecarboxylate (149877-41-8)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
LC50 inhalation rat (mg/l) 1,8 mg/l/4h		

Skin corrosion/irritation : Not classified

pH: 7

Serious eye damage/irritation : Not classified

pH: 7

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

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

Aspiration hazard : Not classified

Bifenazate Tech Mix Min.97% (149877-41-8)	

Viscosity, kinematic 544,55445545 mm<sup>2</sup>/s

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3-yl)hydrazinecarboxylate (149877-41-8)		
LC50 fishes 1	1,4 mg/l	
EC50 Daphnia 1	1,4 mg/l	
EC50 72h algae (1)	1,3 mg/l	

#### 12.2. Persistence and degradability

Bifenazate Tech Mix Min.97% (149877-41-8)	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Bifenazate Tech Mix Min.97% (149877-41-8)		
Bioaccumulative potential	Not established.	

bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3-yl)hydrazinecarboxylate (149877-41-8)	
BCF other aquatic organisms 1	83

#### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

## Bifenazate Tech Mix Min.97% (149877-41-8)

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 considerations**

### 13.1. Waste treatment methods

Product/Packaging 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.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3077	3077	3077	3077	3077
14.2. UN proper shippi				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate)
Transport document descri	ription			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate), 9, III, (E)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate), 9, III, MARINE POLLUTANT	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenazate (ISO); isopropyl 2-(4- methoxybiphenyl-3- yl)hydrazinecarboxylate), 9, III
14.3. Transport hazard				
9	9	9	9	9
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

## 14.6. Special precautions for user

## - Overland transport

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 601, 375

Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

: T1, BK1, BK2

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions

(ADR)

Portable tank and bulk container special : TP33

provisions (ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V13
(ADR)

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Special provisions for carriage - Bulk (ADR) : VC1, VC2 Special provisions for carriage - Loading, : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 9

Orange plates

90 3077

Tunnel restriction code (ADR) : E EAC code : 2Z

#### - Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P002, LP02
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1, BK1, BK2, BK3

Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23
MFAG-No : 171

#### - Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197

ERG code (IATA) : 9L

## - Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 kg
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T\* B\*\*
Equipment required (ADN) : PP, A
Number of blue cones/lights (ADN) : 0

#### - Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions : T1, BK1, BK2

(RID)

Portable tank and bulk container special : TP33

provisions (RID)

Tank codes for RID tanks (RID) : SGAV, LGBV

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Transport category (RID) : 3
Special provisions for carriage – Packages : W13

(RID)

Special provisions for carriage – Bulk (RID) : VC1, VC2 Special provisions for carriage - Loading, : CW13, CW31

unloading and handling (RID)

: CW13, C

Colis express (express parcels) (RID) : CE11
Hazard identification number (RID) : 90

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

Not applicable

## **SECTION 15: Regulatory information**

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

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Bifenazate Tech Mix Min.97% is not on the REACH Candidate List Bifenazate Tech Mix Min.97% 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

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Indication of changes:

Revised safety data sheet in accordance with commission regulation (EU) No 2015/830.

Section	Changed item	Change	Comments
2.2	Precautionary statements (CLP)	Modified	
14.1	UN-No. (ADN)	Modified	
14.1	UN-No. (IATA)	Modified	
14.1	UN-No. (IMDG)	Modified	
14.1	UN-No. (ADR)	Modified	
14.2	Proper Shipping Name (ADN)	Modified	
14.2	Proper Shipping Name (ADR)	Modified	
14.6	Special packing provisions (IMDG)	Modified	
14.6	Packing instructions (IMDG)	Modified	
14.6	EAC code	Modified	
14.6	Limited quantities (ADR)	Modified	
14.6	Classification code (ADR)	Modified	

#### Abbreviations and acronyms:

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	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
LC50	Median lethal concentration	
LD50	Median lethal dose	
SDS	Safety Data Sheet	
CAS	CAS (Chemical Abstracts Service) number	
	EG-nr.: EINECS- en ELINCS-number	
	EINECS: European Inventory of Existing Commercial Substances	
	NOEC: No Observed Effect Concentration	
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).	

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	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
	IMDG: International Maritime Code for Dangerous Goods.
	IATA: International Air Transport Association.
ICAO	International Civil Aviation Organization
	STOT: Specific Target Organ Toxicity
	SDS: Safety Data Sheet
	PNEC: Predicted no effect concentration
	PEC: Predicted Environmental Concentration
	OEL: Occupational Exposure Limit

Data sources

 according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

Other information

: 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:

Tull text of TT and Lott statements.	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	May cause 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

This Safety Data Sheet is compiled by :

Trade Wind B.V. (info@twnl.nl)

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

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