

Version	Revision Date:	SDS Number:
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	FORCE ST
Design code	:	A13219F
Product Registration Number	:	MAPP 19042

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

Use of the Substance/Mixture	:	Insecticide
Recommended restrictions on use	:	professional use

1.3 Details of the supplier of the safety data sheet

Company	:	Syngenta UK Limited CPC4, Capital Park Fulbourn, Cambridge CB21 5XE United Kingdom
Telephone	:	+44 (0) 1223 883400
Telefax	:	+44 (0) 1223 882195
E-mail address of person responsible for the SDS	:	customer.services@syngenta.com

1.4 Emergency telephone number

Emergency telephone	: +44 1484 538444
number	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)			
Short-term (acute) aquatic hazard,	H400: Very toxic to aquatic life.		
Category 1			
Long-term (chronic) aquatic hazard,	H410: Very toxic to aquatic life with long lasting		
Category 1	effects.		



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)				
Hazard pictograms				
Signal word	Warning			
Hazard statements	H317 May cause an allergic skin reaction.H332 Harmful if inhaled.H410 Very toxic to aquatic life with long lasting effects.			
Supplemental Hazard Statements	EUH208 Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.			
	EUH401 To avoid risks to human health and the environment, comply with the instructions for use.			
Precautionary statements	P102 Keep out of reach of children.			
	Prevention: P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.			
	Response:P302 + P352IF ON SKIN: Wash with plenty of soap and water.P304 + P340 + P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.P332 + P313If skin irritation occurs: Get medical advice/ attention.P391Collect spillage.			
	Disposal: P501 Dispose of contents/container to a licensed hazardous- waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-			

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

hazardous waste.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
tefluthrin (ISO)	Registration number 79538-32-2	Acute Tox. 2; H300	>= 10 - < 20
	607-723-00-6	Acute Tox. 2, H300 Acute Tox. 1; H330 Acute Tox. 2; H310 Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 10 - < 20
		H410 M-Factor (Acute	
		aquatic toxicity): 10,000 M-Factor (Chronic	
		aquatic toxicity): 10,000	
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 10 - < 20
sodium hydroxide	1310-73-2 215-185-5 011-002-00-6	Met. Corr. 1; H290 Skin Corr. 1A; H314	>= 1 - < 2
	01-2119457892-27	specific concentration limit Skin Corr. 1A; H314 >= 5 %	
		Skin Corr. 1B; H314 >= 2 - < 5 % Skin Irrit. 2; H315	
		>= 0,5 - < 2 % Eye Irrit. 2; H319 >= 0,5 - < 2 %	
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1;	>= 0.0025 - < 0.025



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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment. If inhaled Move the victim to fresh air. : If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately. In case of skin contact Take off all contaminated clothing immediately. : Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use. In case of eye contact Rinse immediately with plenty of water, also under the eyelids, : for at least 15 minutes. Remove contact lenses. Immediate medical attention is required. If swallowed If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. 4.2 Most important symptoms and effects, both acute and delayed Symptoms : Aspiration may cause pulmonary oedema and pneumonitis. Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.



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				Treat symptoma	tically.
SEC		5: Firefighting meas	sur	es	
5.1 E	Extingu	ishing media			
	Suitable	e extinguishing media	:	Extinguishing me Use water spray carbon dioxide. Extinguishing me Alcohol-resistant or Water spray	, alcohol-resistant foam, dry chemical or edia - large fires
	Unsuita media	able extinguishing	:	Do not use a sol fire.	id water stream as it may scatter and spread
5.2 S	Special	hazards arising from	the	e substance or m	ixture
Specific hazards during firefighting		:	will produce den products of com	ontains combustible organic components, fire se black smoke containing hazardous bustion (see section 10). omposition products may be a hazard to	
5.3 A	Advice f	for firefighters			
	Special for firefi	l protective equipment ighters	:	Wear full protect apparatus.	ive clothing and self-contained breathing
	Further	information	:	courses.	-off from fire fighting to enter drains or water tainers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures				
Personal precautions :	Refer to protective measures listed in sections 7 and 8.			
6.2 Environmental precautions				
Environmental precautions :	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.			
6.3 Methods and material for containment and cleaning up				
Methods for cleaning up :	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly.			



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Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on safe handling) :	No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
7.2 Conditions for safe storage, in	ncl	uding any incompatibilities
Requirements for storage areas and containers	:	No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.
Further information on storage stability	:	Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.
7.3 Specific end use(s)		
Specific use(s)	:	For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
tefluthrin (ISO)	79538-32-2	TWA	0.04 mg/m3 (Skin)	Syngenta
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6	TWA	19 ppm 100 mg/m3	Supplier
sodium hydroxide	1310-73-2	STEL	2 mg/m3	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	Workers	Inhalation	Long-term systemic effects	150 mg/m3



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	Workers	Dermal	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	11 mg/kg
	Consumers	Oral	Long-term systemic effects	11 mg/kg
sodium hydroxide	Workers	Inhalation	Long-term local effects	1 mg/m3
	Consumers	Inhalation	Long-term local effects	1 mg/m3
1,2-benzisothiazol- 3(2H)-one	Workers	Inhalation	Long-term systemic effects	6.81 mg/m3
	Workers	Dermal	Long-term systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.345 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
1,2-benzisothiazol-3(2H)-one	Fresh water	0.00403 mg/l
	Marine water	0.000403 mg/l
	Sewage treatment plant	1.03 mg/l
	Fresh water sediment	0.0499 mg/kg
	Marine sediment	0.00499 mg/kg
	Freshwater - intermittent	0.0011 mg/l
	Marine water - intermittent	0.000110 mg/l
	Soil	3 mg/kg

8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection	:	No special protective equipment required.
Hand protection		

Material	: Nitrile rubber
Break through time	: > 480 min
Glove thickness	: 0.5 mm
Remarks	: Wear protective gloves. The choice of an appropriate glove



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		features and is Please observe breakthrough t gloves. Also ta conditions und danger of cuts through time d the thickness a measured for e replaced if the breakthrough. The selected p	depend on its material but also on other quality a different from one producer to the other. e the instructions regarding permeability and ime which are provided by the supplier of the ke into consideration the specific local er which the product is used, such as the , abrasion, and the contact time. The break epends amongst other things on the material, and the type of glove and therefore has to be each case. Gloves should be discarded and re is any indication of degradation or chemical protective gloves have to satisfy the of Regulation (EU) 2016/425 and the standard d from it
Skin	and body protection	: Choose body p concentration a the specific wo	protection in relation to its type, to the and amount of dangerous substances, and to
		Wear as appro Impervious clo	•
Resp	iratory protection	: No personal re required.	spiratory protective equipment normally
			are facing concentrations above the exposure use appropriate certified respirators.
Prote	ctive measures	over the use of When selecting	hnical measures should always have priority f personal protective equipment. g personal protective equipment, seek ofessional advice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Colour	:	liquid, opaque white to beige
Odour Odour Threshold	:	characteristic No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available



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Flas	sh point	:	Method: Seta c does not flash	osed cup
Auto	o-ignition temperature	:	> 400 °C	
[composition temperature Decomposition emperature	:	No data availab 11.0 Concentration:	
	cosity √iscosity, dynamic	:	6,940 mPa.s (2	
N	√iscosity, kinematic	:	4,440 mPa.s (4 6510 mm2/s (20 4165 mm2/s (40) °C)
١	ubility(ies) Water solubility Solubility in other solvents	:	No data availab Miscible Solvent: Water	le
octa	tition coefficient: n- anol/water oour pressure	:	No data availab No data availab	
Der	nsity	:	1.066 g/cm3	
Rela	ative vapour density	:	No data availab	le
	ticle characteristics Particle size	:	No data availab	le
.2 Othe	er information			
Exp	losives	:	Not explosive	
Oxio	dizing properties	:	The substance	or mixture is not classified as oxidizing.
Eva	poration rate	:	No data availab	le
Sur	face tension	:	65.2 mN/m, 25	°C

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.



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10 2	Chemical stability		
	Stable under normal conditio	ns.	
	Possibility of hazardous re		ions
	Hazardous reactions	:	No dangerous reaction known under conditions of normal us
10.4	Conditions to avoid		
	Conditions to avoid	:	No decomposition if used as directed.
10.5	Incompatible materials		
	Materials to avoid	:	None known.
10.6	Hazardous decomposition	pro	oducts
	Hazardous decomposition products	:	No hazardous decomposition products are known.
SEC	TION 11: Toxicological i	nfor	rmation
020			
			as defined in Regulation (EC) No 1272/2008
	Information on likely routes o exposure	ı.	Ingestion Inhalation
			Skin contact Eye contact
	Acute toxicity		
	Acute toxicity Product:		
	-	:	LD50 (Rat, female): > 5,000 mg/kg
	Product:	:	
	Product: Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h
	Product: Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist
	Product: Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h
	Product: Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
	Product: Acute oral toxicity Acute inhalation toxicity	: :	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
	Product: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Components:	: :	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
	Product: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity	: : :	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
	Product: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Components: tefluthrin (ISO):		LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity LD50 (Rat, male and female): > 5,000 mg/kg
	Product: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Components: tefluthrin (ISO): Acute oral toxicity	: : : : :	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity LD50 (Rat, male and female): > 5,000 mg/kg LD50 (Rat, male): 21.8 mg/kg LC50 (Rat, male and female): 0.0427 mg/l Exposure time: 4 h
	Product: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Components: tefluthrin (ISO): Acute oral toxicity	: : : : :	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity LD50 (Rat, male and female): > 5,000 mg/kg LD50 (Rat, male): 21.8 mg/kg LC50 (Rat, male and female): 0.0427 mg/l
	Product: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Components: tefluthrin (ISO): Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity LD50 (Rat, male and female): > 5,000 mg/kg LD50 (Rat, male): 21.8 mg/kg LC50 (Rat, male and female): 0.0427 mg/l Exposure time: 4 h
	Product: Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Components: tefluthrin (ISO): Acute oral toxicity Acute inhalation toxicity	:	LD50 (Rat, female): > 5,000 mg/kg LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity LD50 (Rat, male and female): > 5,000 mg/kg LD50 (Rat, male): 21.8 mg/kg LC50 (Rat, male and female): 0.0427 mg/l Exposure time: 4 h Test atmosphere: dust/mist



1.2-benzisothiazol-3(2H)-one: Acute oral toxicity LD50 (Rat, male): 670 mg/kg Acute dermal toxicity LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Skin corrosion/irritation Product: Species Result Result Result Remarks Bereies Components: tefluthrin (ISO): Species Result Result Result Result May cause temporary itching, tingling, burning or numbness or exposed skin, called paresthesia. Components: tefluthrin (ISO): Result No skin irritation Result No skin irritation Result Corrosive 1.2-benzisothiazol-3(2H)-one: Species Rabbit Result No eye irritation Components: Bedies Rabbit Result No eye irritation Secies Rabbit Result No eye irritation Species	Version 10.0	Revision Date: 10.03.2021	SDS Number: S163049846	This version replaces all previous versions.
Acute oral toxicity : LD50 (Rat, male): 670 mg/kg Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Acute dermal toxicity : No skin irritation Product: : No skin irritation Result : No skin irritation Remarks : May cause temporary itching, tingling, burning or numbness or exposed skin, called paresthesia. Components: tefluthrin (ISO): : Species : Rabbit Result : No skin irritation Remarks : May cause temporary itching, tingling, burning or numbness or exposed skin, called paresthesia. sodium hydroxide: : Corrosive Result : Corrosive 1,2-benzisothiazol-3(2H)-one: Species Species : Rabbit Result : No eye irritation Components: : No eye irritation Components: : No eye irritation <td>1,2-be</td> <td>enzisothiazol-3(2H)-</td> <td>one:</td> <td></td>	1,2-be	enzisothiazol-3(2H)-	one:	
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Species : Rabbit Result : No skin irritation Remarks : May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia. Components: : tefluthrin (ISO): Species : Rabbit Result : No skin irritation Result : May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia. sodium hydroxide: : May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia. sodium hydroxide: : Result : Result : Corrosive 1,2-benzisothiazol-3(2H)-one: : Species Species : Rabbit Result : No eye irritation Components: : No eye irritation sodium hydroxide: : No eye irritation sodium hydroxide: <td>Skin</td> <td>corrosion/irritation</td> <td></td> <td></td>	Skin	corrosion/irritation		
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Species : Rabbit Result : No skin irritation Remarks : May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia. sodium hydroxide: : Result : Result : Corrosive 1,2-benzisothiazol-3(2H)-one: : Rabbit Species : Rabbit Result : Mild skin irritation Serious eye damage/eye irritation : Species Product: : No eye irritation Species : Rabbit Result : No eye irritation Components: : No eye irritation Species : Rabbit Result : No eye irritation Components: : No eye irritation Species : Rabbit Result : No eye irritation Species : Rabbit Result : No eye irritation Species : Rabbit Result : Co	<u>Comp</u>	oonents:		
Result : No skin irritation Remarks : May cause temporary itching, tingling, burning or numbness or exposed skin, called paresthesia. sodium hydroxide: : Result : Result : Corrosive 1,2-benzisothiazol-3(2H)-one: : Species : Species : Rabbit Result : Mild skin irritation Serious eye damage/eye irritation Product: Species : Rabbit Result : No eye irritation Product: : No eye irritation Species : Rabbit Result : No eye irritation Components: : No eye irritation Species : Rabbit Result : No eye irritation sodium hydroxide: : No eye irritation sodium hydroxide: : No eye irritation sodium hydroxide: : Corrosive 1,2-benzisothiazol-3(2H)-one: : Species : Rabbit <td>teflut</td> <td>hrin (ISO):</td> <td></td> <td></td>	teflut	hrin (ISO):		
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1,2-benzisothiazol-3(2H)-one:Species:Result:Mild skin irritationSerious eye damage/eye irritationSerious eye damage/eye irritationProduct:Species:Result:No eye irritationComponents:tefluthrin (ISO):Species:Result:No eye irritationsodium hydroxide:Result:Action is the intervence interve		-		
Species:RabbitResult:Mild skin irritationSerious eye damage/eye irritationProduct:	Resul	t	: Corrosive	
Result: Mild skin irritationSerious eye damage/eye irritationProduct:Species: RabbitResult: No eye irritationComponents:tefluthrin (ISO):Species: RabbitResult: No eye irritationsodium hydroxide:Result: Corrosive1,2-benzisothiazol-3(2H)-one:Species: Rabbit	1,2-be	enzisothiazol-3(2H)-	one:	
Serious eye damage/eye irritation Product: Species : Result : Components: tefluthrin (ISO): Species : Result : Result : Species : Result : Species : Result : Result : No eye irritation Sodium hydroxide: Result : Result : Corrosive Species : Result : Result : Result : Species : Result : Species : Result : Species : Result : Species : Result : Result : Species : Result : Species : Result :	Speci	es	: Rabbit	
Product:Species:RabbitResult:No eye irritationComponents:tefluthrin (ISO):Species:RabbitResult:No eye irritationsodium hydroxide:Result:Corrosive1,2-benzisothiazol-3(2H)-one:Species:Rabbit	Resul	t	: Mild skin irrita	ation
Species:RabbitResult:No eye irritationComponents::tefluthrin (ISO)::Species:RabbitResult:No eye irritationsodium hydroxide::Result:Corrosive1,2-benzisothiazol-3(2H)-one::Species:Rabbit	Serio	us eye damage/eye	irritation	
Result:No eye irritationComponents::tefluthrin (ISO)::Species:Result:Rodium hydroxide::Result:Sodium hydroxide::Result:Species:Result:	<u>Produ</u>	uct:		
Components: tefluthrin (ISO): Species : Rabbit Result : No eye irritation sodium hydroxide: Result : Corrosive 1,2-benzisothiazol-3(2H)-one: Species : Rabbit				
tefluthrin (ISO):Species:RabbitResult:No eye irritationsodium hydroxide:Result:Corrosive1,2-benzisothiazol-3(2H)-one:Species:Rabbit	Resul	t	: No eye irritati	on
Species:RabbitResult:No eye irritationsodium hydroxide:	Comp	oonents:		
Result:No eye irritationsodium hydroxide: Result:Corrosive1,2-benzisothiazol-3(2H)-one: Species:Rabbit	teflut	hrin (ISO):		
sodium hydroxide: Result : Corrosive 1,2-benzisothiazol-3(2H)-one: Species : Rabbit				
Result:Corrosive1,2-benzisothiazol-3(2H)-one::Species:Rabbit	Resul	t	: No eye irritati	on
Result:Corrosive1,2-benzisothiazol-3(2H)-one::Species:Rabbit	sodiu	m hydroxide:		
Species : Rabbit		-	: Corrosive	
Species : Rabbit	1,2-be	enzisothiazol-3(2H)-	one:	
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			11/2	21



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Result	:	: Risk of serious damage to eyes.	
Respi	ratory or skin sensi	sation	
<u>Produ</u>	ict:		
Specie		: Guinea pig	
Result	:	: Did not cause sensitisation on laboratory animals.	
<u>Comp</u>	onents:		
tefluth	nrin (ISO):		
Specie		: Guinea pig	
Result	:	: Did not cause sensitisation on laboratory animals.	
	enzisothiazol-3(2H)-		
Result	:	: Probability or evidence of skin sensitisation in humans	
Germ	cell mutagenicity		
<u>Comp</u>	onents:		
tefluth	nrin (ISO):		
Germ Asses	cell mutagenicity- sment	: Animal testing did not show any mutagenic effects.	
Solve	nt naphtha (petrole	m), light arom.; Low boiling point naphtha -unspecified:	
Germ Asses	cell mutagenicity- sment	: Classified based on benzene content < 0.1% (Regulatio 1272/2008, Annex VI, Part 3, Note P)	n (E(
1,2-be	enzisothiazol-3(2H)-	ne:	
Germ Asses	cell mutagenicity- sment	: Weight of evidence does not support classification as a cell mutagen.	germ
Carcin	nogenicity		
<u>Comp</u>	onents:		
tefluth	nrin (ISO):		
Carcin Asses	iogenicity - sment	: No evidence of carcinogenicity in animal studies.	
Solve	nt naphtha (petrole	m), light arom.; Low boiling point naphtha -unspecified:	
Carcin Asses	ogenicity - sment	: Classified based on benzene content < 0.1% (Regulatio 1272/2008, Annex VI, Part 3, Note P)	n (E(
Repro	ductive toxicity		
<u>Comp</u>	onents:		
tefluth	nrin (ISO):		
	· · · /·		



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Asse	essment							
STO	T - single exposure							
Com	ponents:							
Solv	ent naphtha (petroleur	n), light arom.; Low	boiling point naphtha -unspecified:					
Asse	essment	toxicant, single irritation., The s	or mixture is classified as specific target organ exposure, category 3 with respiratory tract ubstance or mixture is classified as specific icant, single exposure, category 3 with					
Rep	eated dose toxicity							
Com	ponents:							
teflu	thrin (ISO):							
Rem	arks	: No adverse effe	ct has been observed in chronic toxicity tests.					
Aspi	iration toxicity							
Com	ponents:							
	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified: May be fatal if swallowed and enters airways.							
11.2 Info	rmation on other hazar	ds						
Ende	ocrine disrupting prop	erties						
Dree	lust							

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 12: Ecological information

12.1 Toxicity

Components:		
tefluthrin (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.06 µg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Americamysis): 0.053 µg/l Exposure time: 96 h
Toxicity to algae/aquatic	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)):



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plants			1.05 mg/l Exposure time: 96 h Remarks: Highest attair	nable concentration
M-Fac toxicity	tor (Acute aquatic /)	:	10,000	
Toxicit	ty to microorganisms	:	EC50 (activated sludge Exposure time: 3 h	e): > 1,000 mg/l
Toxicit toxicity	ty to fish (Chronic /)	:	NOEC: 0.0096 µg/l Exposure time: 28 d Species: Pimephales p	romelas (fathead minnow)
aquati	ty to daphnia and other c invertebrates nic toxicity)	:	NOEC: 0.00792 µg/l Exposure time: 21 d Species: Daphnia magr	na (Water flea)
			NOEC: 0.0124 µg/l Exposure time: 28 d Species: Americamysis	5
M-Fac toxicity	tor (Chronic aquatic	:	10,000	
	nt naphtha (petroleum ty to fish), lig :	-	point naphtha -unspecified: aykiss (rainbow trout)): 9.2 mg/l
	ty to daphnia and other c invertebrates	:	EL50 (Daphnia magna Exposure time: 48 h	(Water flea)): 3.2 mg/l
Toxicit plants	ty to algae/aquatic	:	ErC50 (Raphidocelis su - 2.9 mg/l Exposure time: 72 h	ubcapitata (freshwater green alga)): 2
			NOEC (Raphidocelis su mg/l End point: Growth rate Exposure time: 72 h	ubcapitata (freshwater green alga)): 1
Toxicit toxicity	ty to fish (Chronic /)	:	NOEC: 1.23 mg/l Exposure time: 28 d Species: Oncorhynchus	s mykiss (rainbow trout)
aquati	ty to daphnia and other c invertebrates	:	NOEC: 2.14 mg/l Exposure time: 28 d Species: Daphnia magr	na (Water flea)
(Chron	nic toxicity)			
·	nic toxicity) xicology Assessment			



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1,2-benzisothiazol-3(2H)-one:								
Toxic	ity to fish	:	LC50 (Oncorhyno Exposure time: 9	chus mykiss (rainbow trout)): 2.18 mg/l 6 h				
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 2.94 mg/l 8 h				
Toxic plants	ity to algae/aquatic	:	ErC50 (Raphidoc 0.15 mg/l Exposure time: 73	elis subcapitata (freshwater green alga)): 2 h				
			EC10 (Raphidoce 0.04 mg/l End point: Growtl Exposure time: 7					
M-Fa toxici	ctor (Acute aquatic ty)	:	1					
Toxic toxici	ity to fish (Chronic y)	:	NOEC: 0.3 mg/l Exposure time: 24 Species: Oncorhy	8 d /nchus mykiss (rainbow trout)				
aquat	ity to daphnia and other ic invertebrates nic toxicity)	:	NOEC: 1.7 mg/l Exposure time: 2 Species: Daphnia					
12.2 Persi	stence and degradabil	lity						
Com	oonents:	-						
teflut	hrin (ISO):							
	ity in water	:	Degradation half Remarks: The su	life: 60 - 203 d bstance is stable in water.				
Solve	ent naphtha (petroleum	ı), li	ight arom.; Low b	oiling point naphtha -unspecified:				
Biode	gradability	:	Result: Readily b	iodegradable.				
1.2-b	enzisothiazol-3(2H)-on	e:						
	gradability	:	Result: rapidly de	gradable				
12.3 Bioa	ccumulative potential							
Com	oonents:							
teflut	hrin (ISO):							
Bioad	cumulation	:	Remarks: Bioacc	umulates				
	enzisothiazol-3(2H)-on cumulation	e: :	Remarks: Bioacc	umulation is unlikely.				



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12.4 Mobili	ity in soil		
<u>Comp</u>	onents:		
tefluth	nrin (ISO):		
	ution among nmental compartments	: Remarks: immobile	
	ty in soil	: Dissipation time: 48 - 151 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.	
12.5 Resul	ts of PBT and vPvB a	sessment	
<u>Produ</u>	<u>ct:</u>		
Asses	sment	 This substance/mixture contains no components conside to be either persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB) at levels 0.1% or higher 	or
<u>Comp</u>	onents:		
	nrin (ISO):		
Asses	sment	: This substance is not considered to be persistent, bioaccumulating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulatir (vPvB)	g
Solve	nt naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:	
Asses	sment	: This substance is not considered to be persistent, bioaccumulating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulatir (vPvB)	g
1,2-be	nzisothiazol-3(2H)-on	9:	
Asses		: This substance is not considered to be persistent, bioaccumulating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulatir (vPvB)	g
		rtios	
2.6 Endo	crine disrupting prope		
12.6 Endoo <u>Produ</u>			
	<u>ct:</u>	 The substance/mixture does not contain components considered to have endocrine disrupting properties accor to REACH Article 57(f) or Commission Delegated regulat (EU) 2017/2100 or Commission Regulation (EU) 2018/60 levels of 0.1% or higher. 	ion
<u>Produ</u> Asses	<u>ct:</u>	 The substance/mixture does not contain components considered to have endocrine disrupting properties accor to REACH Article 57(f) or Commission Delegated regular (EU) 2017/2100 or Commission Regulation (EU) 2018/60 	ion



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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product :	Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging :	Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
Waste Code :	uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMD	G :	UN 3082
ΙΑΤΑ	· :	UN 3082
14.2 UN p	proper shipping name	
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEFLUTHRIN)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEFLUTHRIN)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEFLUTHRIN)
IMD	3 :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEFLUTHRIN)
ΙΑΤΑ	. :	Environmentally hazardous substance, liquid, n.o.s. (TEFLUTHRIN)



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4.3	Transpor	t hazard class(es)			
	ADN		:	9	
	ADR		:	9	
	RID		:	9	
	IMDG		:	9	
	ΙΑΤΑ			9	
	Packing (group	•	°	
	ADN				
	Packing g	roup	:	111	
(Classificat	tion Code	:	M6	
	Hazard Id Labels	entification Number	:	90 9	
			·	J	
	ADR Packing g	roup		Ш	
	Classificat		÷	 M6	
		entification Number	:	90	
	Labels	and a discussion of the	:	9	
		striction code	:	(-)	
	RID Deelving g			111	
	Packing g Classificat		:	M6	
		entification Number	÷	90	
	Labels		:	9	
	IMDG				
	Packing g	roup	:	III	
	Labels	_	:	9	
	EmS Code		:	F-A, S-F	
	IATA (Cai			004	
	Packing ir aircraft)	struction (cargo	•	964	
		struction (LQ)	:	Y964	
	Packing g		:	III	
	Labels		:	Miscellaneous	
	IATA (Pas			004	
	Packing ir	er aircraft)	:	964	
		struction (LQ)	:	Y964	
	Packing g		:	111	
	Labels		:	Miscellaneous	
4.5	Environm	nental hazards			
	ADN				
	Environme	entally hazardous	:	yes	
	ADR				
	-	entally hazardous	•	yes	
I	Environme	intally mazardouo	•	<i>J</i> = =	



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Envir	onmentally hazardous	: yes	
IMDG Marin	e pollutant	: yes	
	(Passenger) onmentally hazardous	: yes	
	(Cargo) onmentally hazardous	: yes	
14 6 Snec	ial procautions for us	or	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on	:	Not applicable
e		
	:	Not applicable
Concern for Authorisation (Article 59).		
REACH - List of substances subject to authorisation	:	Not applicable
•		
		Not applicable
e	•	
		Net englischie
		Not applicable
Regulation (EC) No 649/2012 of the European	:	Not applicable
Parliament and the Council concerning the export and		
import of dangerous chemicals		
	ment	and of the Council on t
	the market and use of certain dangerous substances, preparations and articles (Annex XVII) REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation (Annex XIV) Regulation (EC) No 1005/2009 on substances that deplete the ozone layer Regulation (EU) 2019/1021 on persistent organic pollutants (recast) Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	the market and use of certain dangerous substances, preparations and articles (Annex XVII) REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation (Annex XIV) Regulation (EC) No 1005/2009 on substances that deplete the ozone layer Regulation (EU) 2019/1021 on persistent organic pollutants (recast) Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Use plant protection products safely. Always read the label and product information before use. Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.



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SECTION 16: Other information

Full text of H-Statements H226 Flammable liquid and vapour. 5 H290 May be corrosive to metals. H300 Fatal if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. Fatal in contact with skin. H310 Causes severe skin burns and eye damage. H314 H315 Causes skin irritation. May cause an allergic skin reaction. H317 H318 Causes serious eye damage. H330 Fatal if inhaled. May cause respiratory irritation. H335 May cause drowsiness or dizziness. H336 H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. Full text of other abbreviations Acute Tox. Acute toxicity Aquatic Acute Short-term (acute) aquatic hazard : Aquatic Chronic Long-term (chronic) aquatic hazard : Asp. Tox. Aspiration hazard Eve Dam. Serious eye damage 2 Flam. Liq. : Flammable liquids Met. Corr. Corrosive to metals : Skin Corr. Skin corrosion Skin Irrit. Skin irritation Skin Sens. Skin sensitisation Specific target organ toxicity - single exposure STOT SE UK. EH40 WEL - Workplace Exposure Limits GB EH40 2

GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50



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- Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		Classification procedure:
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN