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

1.1 Product identifier

Trade name	:	WARRIOR
Design code	:	A12690B
Product Registration Number	:	MAPP 13857
Unique Formula Identifier (UFI)	:	90V4-M0SS-M00A-MQV3

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

Use of the Sub-	: Insecticide
stance/Mixture	

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 num-	: +44 1484 538444
ber	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1	
Long-term (chronic) aquatic hazard, Cat-	H410: Very toxic to aquatic life with long lasting
egory 1	effects.

2.2 Label elements

Additional Labelling

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EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

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.

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.

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. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
lambda-cyhalothrin (ISO)	91465-08-6 415-130-7 607-252-00-6	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10,000 M-Factor (Chronic aquatic toxicity): 10,000	>= 2.5 - < 10
hydrocarbons, C10-C13, aromat- ics, <1% naphthalene	Not Assigned 01-2119451097-39- xxxx	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 2.5 - < 10
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60- xxxx	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1;	>= 0.05 - < 0.1

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			H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1 specific concentration limit Skin Sens. 1; H317 >= 0.05 %

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

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aromatic solvents. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media					
:	Suitable extinguishing media	:	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. Extinguishing media - large fires Alcohol-resistant foam or Water spray		
	Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.		
5.2 S	pecial hazards arising from	the	e substance or mixture		
	Specific hazards during fire- fighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod- ucts of combustion (see section 10). Exposure to decomposition products may be a hazard to health.		
5.3 A	5.3 Advice for firefighters				
	Special protective equipment for firefighters	:	Wear full protective clothing and self-contained breathing apparatus.		
	Further information	:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers 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 ab-
		sorbent material, (e.g. sand, earth, diatomaceous earth, ver-
		miculite) and place in container for disposal according to local
		/ national regulations (see section 13).

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Clean contaminated surface thoroughly. 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, inc	clı	uding any incompatibilities
	Requirements for storage : areas and containers		No special storage conditions required. Keep containers tight- ly 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 stor- : age 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

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

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
propane-1,2-diol	Workers	Inhalation	Long-term systemic	168 mg/m3
			effects	-
	Consumers	Inhalation	Long-term local ef-	10 mg/m3
			fects	-
	Consumers	Inhalation	Long-term systemic	30 mg/m3
			effects	-
	Workers	Inhalation	Long-term local ef-	10 mg/m3
			fects	-
hydrocarbons, C10-	Workers	Inhalation	Long-term systemic	151 mg/m3
C13, aromatics, <1%			effects	Ũ
naphthalene				
	Workers	Dermal	Long-term systemic	12.5 mg/kg
			effects	5.5
	Consumers	Inhalation	Long-term systemic	32 mg/m3

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			effects	
	Consumers	Dermal	Long-term systemic effects	7.5 mg/kg
	Consumers	Oral	Long-term systemic effects	7.5 mg/kg
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
propane-1,2-diol	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Marine sediment	57.2 mg/kg
	Fresh water sediment	572 mg/kg
	Soil	50 mg/kg
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/face protection	:	No special protective equipment required.
Hand protection		

Material	: Nitrile rubber
Break through time	: > 480 min
Glove thickness	: 0.5 mm

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rsion)	Revision Date: 15.08.2023	SDS Number: S1361362684	Date of last issue: - Date of first issue: 15.08.2023
	emarks	does not only of features and is Please observe breakthrough t gloves. Also ta tions under wh cuts, abrasion, depends amor and the type of each case. Glo is any indicatio The selected p tions of Regula derived from it	
Skin a	and body protection	tration and am cific work-place	vash contaminated clothing before re-use. ppriate:
Respi	iratory protection	: When workers limit they must Suitable respin Respirator with The filter class imum expected (gas/vapour/ae dling the produ	are facing concentrations above the exposure use appropriate certified respirators. atory equipment: a particle filter (EN 143) for the respirator must be suitable for the max d contaminant concentration erosol/particulates) that may arise when han- uct. If this concentration is exceeded, self- athing apparatus must be used.
	ter type ctive measures	 Particulates type The use of technology over the use of 	pe (P) hnical measures should always have priority f personal protective equipment. g personal protective equipment, seek appro-
Envir	onmental exposure o	controls	
Water	-	:	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	suspension
Colour	:	beige to cream
Odour	:	aromatic, weak

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	Odour ⁻	Threshold	:	No data available	9
	Melting	point/range	:	No data available	9
	Boiling	point/boiling range	:	100 °C	
	Flamma	ability	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Flash p	oint	:	Method: Pensky- does not flash	Martens closed cup
	Auto-ig	nition temperature	:	465 °C	
	Decom	position temperature	:	No data available	9
	рН		:	4 - 8 (25 °C) Concentration: 1	%w/v
	Viscosi Visc	ty osity, kinematic	:	107 mm2/s (20 °	C)
	Solubili Wat	ty(ies) er solubility	:	completely miscil	ble
	Solu	bility in other solvents	:	Solvent: Water	
	Partition octanol	n coefficient: n- /water	:	No data available	9
	Vapour	pressure	:	No data available	9
	Density	,	:	1.057 g/cm3 (20	°C)
	Relative	e vapour density	:	No data available	9
		characteristics icle size	:	No data available	9
9.2		formation			
	Explosi	ves	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.

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Evap	oration rate	:	No data available

Surface tension	:	37.0 mN/m, 20 °C
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SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use.

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10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid	: None known.
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10.6 Hazardous decomposition products

Hazardous decomposition : No hazardous decomposition products are known. products

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Eye contact

Information on likely routes of : Ingestion exposure Inhalation Skin contact

Acute toxicity

Product:		
Acute oral toxicity	:	LD50 (Rat, male): 334 mg/kg
Acute inhalation toxicity	:	(Rat, male and female): > 2.5

n toxicity	: (Rat, male and female): > 2.5 mg/l
	Exposure time: 4 h
	Test atmosphere: dust/mist
	Assessment: The component/mixture is moderately toxic after short term inhalation., The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal

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			toxicity	
Com	iponents:			
	oda-cyhalothrin (ISO): e oral toxicity	:	LD50 (Rat, female	e): 56 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat, male a Exposure time: 4 Test atmosphere:	
Acut	e dermal toxicity	:	LD50 (Rat, male)	: 632 mg/kg
1,2-1	penzisothiazol-3(2H)-on	e:		
Acut	e oral toxicity	:	LD50 (Rat, male)	: 670 mg/kg
Acut	e dermal toxicity	:		and female): > 2,000 mg/kg substance or mixture has no acute dermal
Skir	corrosion/irritation			
Spee		:	Rabbit	
Res	JIT	:	No skin irritation	
<u>Con</u>	iponents:			
	oda-cyhalothrin (ISO):		5.11%	
Spec Res		:	Rabbit No skin irritation	
hydi	ocarbons, C10-C13, ar	oma	tics, <1% naphtha	alene:
Res	ult	:	Repeated exposu	re may cause skin dryness or cracking.
1,2-I	penzisothiazol-3(2H)-on	e:		
Spec Resi		:	Rabbit Mild skin irritation	
Seri	ous eye damage/eye irr	itati	on	
Proc	luct:			
Spec Resi		:	Rabbit No eye irritation	
Com	ponents:			
laml	oda-cyhalothrin (ISO):			

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Spe	cies	: Rabbit				
Res		: No eye irrita	ation			
1,2-	benzisothiazol-3(2H)-	one:				
Spe	cies	: Rabbit				
Res	ult	: Risk of seri	Risk of serious damage to eyes.			
Res	piratory or skin sensi	tisation				
Pro	duct:					
	cies	: Humans				
Res		: May cause	sensitisation by skin contact.			
Tes	t Type	: Buehler Te	st			
	cies	: Guinea pig				
Res		: Does not ca	ause skin sensitisation.			
<u>Cor</u>	nponents:					
lam	bda-cyhalothrin (ISO)	:				
	t Type	: Maximisatio	n Test			
	cies	: Guinea pig				
Res	ult	: Does not ca	Does not cause skin sensitisation.			
Tes	t Type	: Local lymph	n node assay (LLNA)			
	cies	: Mouse				
Res	ult	: Does not ca	Does not cause skin sensitisation.			
1 2-	benzisothiazol-3(2H)-	one:				
Res	. ,		or evidence of skin sensitisation in humans			
1763	un	. Frobability				
Ger	m cell mutagenicity					
<u>Cor</u>	nponents:					
lam	bda-cyhalothrin (ISO)	:				
	m cell mutagenicity- As		ng did not show any mutagenic effects.			
	sment	. ,				
1,2-	benzisothiazol-3(2H)-	one:				
	m cell mutagenicity- As	5	vidence does not support classification as a germ			
Ses	sment	cell mutage	n.			
Car	cinogenicity					
<u>Cor</u>	nponents:					
lam	bda-cyhalothrin (ISO)	:				
	cinogenicity - Assess-		vidence does not support classification as a car-			
mer	• •	cinogen	•••			

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Reproductive toxicity	
Components:	
lambda-cyhalothrin (ISO): Reproductive toxicity - As- sessment	: Weight of evidence does not support classification for repro- ductive toxicity
STOT - single exposure	
Components:	
lambda-cyhalothrin (ISO): Assessment	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Components:	
lambda-cyhalothrin (ISO): Assessment	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	
Components:	
hydrocarbons, C10-C13, aro May be fatal if swallowed and	
I.2 Information on other hazard	S
Endocrine disrupting proper	ties
Product: Assessment	: The substance/mixture does not contain components consid- ered 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.
Further information	
Product:	
Remarks	: May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

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Components:

lambda-cyhalothrin (ISO):

Remarks

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

SECTION 12: Ecological information

12.1 Toxicity

<u>Product:</u> Toxicity to fish	:	LC50 (Cyprinus carpio (Carp)): 0.012 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0026 mg/l Exposure time: 48 h
Components:		
lambda-cyhalothrin (ISO):		
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 0.000078 mg/l Exposure time: 96 h
		LC50 (Ictalurus punctatus (channel catfish)): 0.00016 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00036 mg/l Exposure time: 48 h
		LC50 (Americamysis): 0.000007 mg/l Exposure time: 48 h
		EC50 (Hyalella azteca (Amphipod)): 0.000002 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 0.31 mg/l Exposure time: 96 h
M-Factor (Acute aquatic tox- icity)	:	10,000
Toxicity to microorganisms	:	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0.000031 mg/l Exposure time: 300 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC: 0.000002 mg/l Exposure time: 21 d

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	ic toxicity)			Species: Daphnia magna (Water flea) NOEC: 0.00022 µg/l Exposure time: 28 d Species: Americamysis		
	M-Factor (Chronic aquatic : toxicity)		:	10,000		
	hvdroca	rbons, C10-C13, aro	ma	tics. <1% naphtha	lene:	
	Toxicity to fish :		:	LL50 (Oncorhynch Exposure time: 96 Remarks: Informa	LL50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l Exposure time: 96 h Remarks: Information given is based on data obtained from similar substances.	
	Toxicity to daphnia and other : aquatic invertebrates		:	Exposure time: 48	tion given is based on data obtained from	
	Toxicity plants	to algae/aquatic	:	mg/l End point: Growth Exposure time: 72	h tion given is based on data obtained from	
				0.22 mg/l End point: Growth Exposure time: 72	h tion given is based on data obtained from	
	Ecotoxi	cology Assessment				
		aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.	
	1.2-benz	zisothiazol-3(2H)-one	e:			
	Toxicity to fish :		LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 2.18 mg/l i h		
	Toxicity to daphnia and other : aquatic invertebrates		EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 2.94 mg/l h		
	Toxicity plants	to algae/aquatic	:	ErC50 (Raphidoce 0.15 mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): h	
				EC10 (Raphidoce 0.04 mg/l End point: Growth Exposure time: 72		

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	M-Factor (Acute aquatic tox- icity)	:	1	
	Toxicity to fish (Chronic tox- icity)	:	NOEC: 0.3 mg/l Exposure time: 28 Species: Oncorhy	3 d nchus mykiss (rainbow trout)
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC: 1.7 mg/l Exposure time: 21 Species: Daphnia	
12.2	2 Persistence and degradabi	lity		
	Components:			
	lambda-cyhalothrin (ISO): Biodegradability	:	Result: Not readily	y biodegradable.
	Stability in water		Degradation half I Remarks: Produc	
	hydrocarbons, C10-C13, ard	oma	tics <1% nanhtha	llene.
	Biodegradability	:	Result: Readily bi	
	1,2-benzisothiazol-3(2H)-on Biodegradability		Result: rapidly de	gradable
12.:	Bioaccumulative potential			
	Components:			
	lambda-cyhalothrin (ISO): Bioaccumulation		Remarks: Bioaccu	umulates
	1,2-benzisothiazol-3(2H)-on	e:		
	Bioaccumulation	:	Remarks: Bioaccu	umulation is unlikely.
12.4	4 Mobility in soil			
	Components:			
	lambda-cyhalothrin (ISO): Distribution among environ- mental compartments Stability in soil	:		56 d ation: 50 % (DT50)
			Remarks: Produc	t is not persistent.

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12.5 Results of PBT and vPvB assessment

	30030mcm
<u>Product:</u> Assessment	: This substance/mixture contains no components considered
Assessment	to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Components:	
lambda-cyhalothrin (ISO):	
Assessment	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB).
1,2-benzisothiazol-3(2H)-on	e:
Assessment	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB).
12.6 Endocrine disrupting prope	erties
Product:	
Assessment	: The substance/mixture does not contain components consid- ered 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.
12.7 Other adverse effects	
No data available	
SECTION 13: Disposal consid	Jerations
13.1 Waste treatment methods	
Product	 Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incinera-

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 han- dling site for recycling or disposal. Do not re-use empty containers.
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Waste Code : uncleaned packagings

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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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			
IMDG	:	UN 3082			
ΙΑΤΑ	:	UN 3082			
14.2 UN proper shipping name					
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN, SUBSTITUTED BENZENOID HYDROCARBONS)			
ADR	:	N.O.S.	Y HAZARDOUS SUBSTANCE, LIQUID, HRIN, SUBSTITUTED BENZENOID		
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN, SUBSTITUTED BENZENOID HYDROCARBONS)			
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN, SUBSTITUTED BENZENOID HYDROCARBONS)			
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (LAMBDA-CYHALOTHRIN, SUBSTITUTED BENZENOID HYDROCARBONS)			
14.3 Transport hazard class(es)					
		Class	Subsidiary risks		
ADN	:	9			
ADR	:	9			
RID	:	9			
IMDG	:	9			
ΙΑΤΑ	:	9			
14.4 Packing group					
ADN					

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Packing group Classification Code Hazard Identification Number Labels Remarks			single or combina	be subject to exemptions when packaged in tion packagings containing a net quantity per ckaging of 5 L or less for liquids, or having a or less for solids.	
	Hazard Labels	cation Code Identification Number restriction code	:	single or combina	be subject to exemptions when packaged in tion packagings containing a net quantity per ckaging of 5 L or less for liquids, or having a br less for solids.
		cation Code Identification Number		single or combination	be subject to exemptions when packaged in tion packagings containing a net quantity per ckaging of 5 L or less for liquids, or having a or less for solids.
	IMDG Packing Labels EmS Co Remark	ode		single or combination	be subject to exemptions when packaged in tion packagings containing a net quantity per ckaging of 5 L or less for liquids, or having a br less for solids.
	aircraft)	g instruction (cargo g instruction (LQ) g group	:	single or combination	be subject to exemptions when packaged in tion packagings containing a net quantity per ckaging of 5 L or less for liquids, or having a or less for solids.

IATA (Passenger)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ger aiı Packir	ng instruction (LQ) ng group s	single or single or	neous duct can be subject to exemptions when packaged in combination packagings containing a net quantity per inner packaging of 5 L or less for liquids, or having a s of 5 kg or less for solids.

14.5 Environmental hazards

ADN Environmentally hazardous	:	yes
ADR Environmentally hazardous	:	yes
RID Environmentally hazardous	:	yes
IMDG Marine pollutant	:	yes
IATA (Passenger) Environmentally hazardous	:	yes
IATA (Cargo) Environmentally hazardous	:	yes

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 the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
		If you intend to use this product as tattoo ink, please contact your ven- dor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de-	:	Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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plete	the ozone layer					
Regu	lation (EU) 2019/102	1 on persistent orgar	nic pollu-	:	Not applicable	
tants	(recast)					
	lation (EC) No 649/20			:	Not applicable	
	and the Council conc	erning the export an	id import			
	ngerous chemicals					
	CH - List of substance	s subject to authoris	ation	:	Not applicable	
(Anne	ex XIV)					
Source	so III: Directive 2012/	19/ELL of the Euro	E1		/IRONMENTAL HAZARDS	
	Parliament and of the				IRONWENTAL HAZARDS	
•	of major-accident h					
	erous substances.	azarus involving				
uany	sious substances.					

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.

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.

SECTION 16: Other information

Full text of H-Statements

H301	:	Toxic if swallowed.		
H302	:	Harmful if swallowed.		
H304	:	May be fatal if swallowed and enters airways.		
H311	:	Toxic in contact with skin.		
H315	:	Causes skin irritation.		
H317	:	May cause an allergic skin reaction.		
H318	:	Causes serious eye damage.		
H330	:	Fatal if inhaled.		
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.		
EUH066	:	Repeated exposure may cause skin dryness or cracking.		
Full text of other abbreviations				
Acute Tox.	:	Acute toxicity		
Aquatic Acute		Short-term (acute) aquatic hazard		

Acute I ox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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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 - 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 Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		Classification procedure:
Acute Tox. 4	H302	Based on product data or assessment
Acute Tox. 4	H332	Based on product data or assessment
Skin Sens. 1	H317	Based on product data or assessment
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Calculation method

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.

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