

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.0	28.09.2024	4637959-00015	Date of first issue: 09.07.2019

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

1.1	Product identifier Trade name	:	Fluazuron / Citronellal Formulation
1.2	Relevant identified uses of the	he s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Kilsheelan Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360D: May damage the unborn child.
Specific target organ toxicity - single ex-	H335: May cause respiratory irritation.
posure, Category 3	
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

Labelling (REGULATION (EC) No 1272/2008)

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



Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
Haza	rd pictograms		
Signa	l word	: Danger	
Haza	rd statements	H315 Cause H317 May ca H319 Cause H335 May ca H360D May da	able liquid and vapour. s skin irritation. ause an allergic skin reaction. s serious eye irritation. ause respiratory irritation. amage the unborn child. oxic to aquatic life with long lasting effects.
Preca	utionary statements	P210 Keep a flames and oth P273 Avoid	special instructions before use. away from heat, hot surfaces, sparks, open er ignition sources. No smoking. release to the environment. protective gloves/ protective clothing/ eye protec- ection.
		Response: P308 + P313 attention. P391 Collec	IF exposed or concerned: Get medical advice/
Haza	rdous components whi	ch must be listed on	the label:

N-Methyl-2-pyrrolidone

6-Octenal, 3,7-dimethyl-

Restricted to professional users.

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.

Vapours may form explosive mixture with air.



Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.0	28.09.2024	4637959-00015	Date of first issue: 09.07.2019

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Soya oil	8001-22-7 232-274-4	Aquatic Chronic 4; H413	>= 30 - < 50
N-Methyl-2-pyrrolidone	872-50-4 212-828-1 606-021-00-7	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 1B; H360D STOT SE 3; H335	>= 30 - < 50
		specific concentra- tion limit STOT SE 3; H335 >= 10 %	
Propan-2-ol	67-63-0 200-661-7 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 1 - < 10
Butanone	78-93-3 201-159-0 606-002-00-3	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	>= 1 - < 10
6-Octenal, 3,7-dimethyl-	106-23-0 203-376-6	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10
Fluazuron	86811-58-7	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 10
		M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity): 1.000	
2,6-Di-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
		M-Factor (Acute aquatic toxicity): 1	



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

Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019	
			M-Factor (Chronic aquatic toxicity): 1	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
4.2 Most important symptoms a	nd e	effects, both acute and delayed
Risks	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May damage the unborn child.
4.3 Indication of any immediate	mec	dical attention and special treatment needed
Treatment	:	Treat symptomatically and supportively.



Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.0	28.09.2024	4637959-00015	Date of first issue: 09.07.2019

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

or obcolar hazaras anonig hom		
Specific hazards during fire- fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Chlorine compounds Fluorine compounds
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages



Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
		cannot be conta	ined.
6.3 Metho	ds and material for co	ontainment and clear	ning up
Metho	ds for cleaning up	Soak up with ine Suppress (knock spray jet. For large spills, ment to keep ma be pumped, stor Clean up remair bent. Local or nationa posal of this mat employed in the mine which regu	ols should be used. ert absorbent material. k down) gases/vapours/mists with a water provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	2	
Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	 If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment. 	
Advice on safe handling	 Do not get on skin or clothing. Avoid breathing mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. 	
Hygiene measures	: If exposure to chemical is likely during typical use, provide eye)

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



Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019			
		place. When usi work clothing sh Wash contamina The effective op engineering con appropriate deg	s and safety showers close to the working ing do not eat, drink or smoke. Contaminated would not be allowed out of the workplace. ated clothing before re-use. weration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, he monitoring, medical surveillance and the ative controls.			
7.2 Cond	itions for safe storage,	including any incon	npatibilities			
Requirements for storage : areas and containers		tightly closed. K accordance with	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.			
Advice on common storage		Strong oxidizing Self-reactive sul Organic peroxid Flammable solic Pyrophoric liquid Pyrophoric solid Self-heating sub Substances and flammable gase Explosives Gases	bstances and mixtures les ds ds ls sstances and mixtures d mixtures, which in contact with water, emit			
7.3 Speci	fic end use(s)					

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
N-Methyl-2- pyrrolidone	872-50-4	TWA	14,4 mg/m3	FOR-2011- 12-06-1358		
pyrrolidone		nation: Substances c bed through the skin.	onsidered to be reprotoxic, C			
		STEL	20 ppm 80 mg/m3	FOR-2011- 12-06-1358		
		ormation: Substances considered to be reprotoxic, Chemicals t orbed through the skin.				
		TWA	10 ppm 40 mg/m3	2009/161/EU		
	Further information: Identifies the possibility of significant uptake through					



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

Fluazuron / Citronellal Formulation

Version Revision Date: SDS Number: 5.0 28.09.2024 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
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	skin, Indicativ	/e					
		STEL	20 ppm 80 mg/m3	2009/161/EU			
	Further inforr skin, Indicativ	mation: Identifies the possibility of significant uptake through the the through the through the throu					
		TWA	2004/37/EC				
	Further inform	nation: Skin, Carcin	ogens or mutagens				
		STEL					
	Further inform	nation: Skin, Carcinogens or mutagens					
Propan-2-ol	67-63-0	TWA	100 ppm 245 mg/m3	FOR-2011- 12-06-1358			
Butanone	78-93-3	TWA	75 ppm 220 mg/m3	FOR-2011- 12-06-1358			
		STEL	300 ppm 900 mg/m3	2000/39/EC			
	Further information: Indicative						
		TWA	200 ppm 600 mg/m3	2000/39/EC			
	Further inform	nation: Indicative	- -				
Fluazuron	86811-58-7	TWA	60 µg/m3 (OEB 3)	Internal			
		Wipe limit	600 µg/ 100cm2	Internal			

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
6-Octenal, 3,7- dimethyl-	Workers	Inhalation	Long-term systemic effects	9 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,7 mg/kg bw/day
	Workers	Skin contact	Long-term local ef- fects	0,140 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	2,7 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Skin contact	Long-term local ef- fects	0,140 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	0,6 mg/kg bw/day
N-Methyl-2- pyrrolidone	Workers	Inhalation	Long-term systemic effects	14,4 mg/m3
	Workers	Inhalation	Long-term local ef- fects	40 mg/m3
	Workers	Skin contact	Long-term systemic effects	4,8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	3,6 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	4,5 mg/m3



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

Fluazuron / Citronellal Formulation

Version Revision Date: 5.0 28.09.2024		e: SDS Nui 4637959		Date of last issue: 06.07.2024 Date of first issue: 09.07.2019	
		Consumers	Skin contact	Long-term systemic effects	2,4 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0,85 mg/kg bw/day
Propa	n-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3
		Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	89 mg/m3
		Consumers	Skin contact	Long-term systemic effects	319 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	26 mg/kg bw/day
Butan	ione	Workers	Inhalation	Long-term systemic effects	600 mg/m3
		Workers	Skin contact	Long-term systemic effects	1161 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	106 mg/m3
		Workers	Skin contact	Long-term systemic effects	412 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	31 mg/kg bw/day
2,6-D creso	i-tert-butyl-p- I	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3
		Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	0,86 mg/m3
		Consumers	Dermal	Long-term systemic effects	0,25 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
6-Octenal, 3,7-dimethyl-	Fresh water	0,009 mg/l
	Freshwater - intermittent	0,087 mg/l
	Marine water	0,001 mg/l
	Sewage treatment plant	4 mg/l
	Fresh water sediment	0,159 mg/kg dry weight (d.w.)
	Marine sediment	0,016 mg/kg dry weight (d.w.)
	Soil	0,027 mg/kg dry weight (d.w.)
N-Methyl-2-pyrrolidone	Fresh water	0,25 mg/l
	Freshwater - intermittent	5 mg/l
	Marine water	0,025 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1,09 mg/kg dry

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



Fluazuron / Citronellal Formulation

ersion 0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 0 Date of first issue: 0	
11		1		weight (d.w.)
		Marine sediment		weight (d.w.) 1,09 mg/kg dry
				weight (d.w.)
		Soil		0,07 mg/kg dry
		801		weight (d.w.)
Propa	an-2-ol	Fresh water		140,9 mg/l
Тюрс		Marine water		140,9 mg/l
		Intermittent use/	release	140,9 mg/l
		Sewage treatme		2251 mg/l
		Fresh water sed		552 mg/kg dry
				weight (d.w.)
H		Marine sediment		552 mg/kg dry
				weight (d.w.)
		Soil		28 mg/kg dry
				weight (d.w.)
		Oral (Secondary	Poisoning)	160 mg/kg food
Butar	none	Fresh water	C /	55,8 mg/l
		Freshwater - inte	ermittent	55,8 mg/l
		Marine water		55,8 mg/l
		Sewage treatme	nt plant	709 mg/l
		Fresh water sed	ment	284,74 mg/kg d
				weight (d.w.)
		Marine sediment		284,7 mg/kg dry
Ц				weight (d.w.)
		Soil		22,5 mg/kg dry
				weight (d.w.)
		Oral (Secondary	Poisoning)	1000 mg/kg foo
2,6-D	i-tert-butyl-p-cresol	Fresh water		0,199 µg/l
H		Intermittent use/	release	0,02 µg/l
		Marine water		0,02 µg/l
H		Sewage treatme		0,17 mg/l
11		Fresh water sed	ment	0,0996 mg/kg di
H		NA subscrate the second		weight (d.w.)
		Marine sediment		0,00996 mg/kg
₽		- Coil		dry weight (d.w.
		Soil		0,04769 mg/kg
H		Oral (Sacandary	Doicoping)	dry weight (d.w. 8,33 mg/kg food
		Oral (Secondary	rusunny)	o,ss mg/kg 1000

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

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



Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-0001	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019		
Eye/face protection		If the work mists or ae Wear a fac	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.		
Hand	I protection				
Ma	Material		Chemical-resistant gloves		
Re	Remarks		Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.		
Skin a	and body protection	: Work unifo Additional being perfo suits) to av Use approp	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially		
Respi	iratory protection	: If adequate sure asses ommended	contaminated clothing. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387		
Fil	ter type		pour type (A)		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Aqueous solution
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	-4 °C
Initial boiling point and boiling range	:	78 °C
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available

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



Fluazuron / Citronellal Formulation

Ver 5.0	sion	Revision Date: 28.09.2024		S Number: 37959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
	Flash p	point	:	52 °C	
	Auto-ignition temperature Decomposition temperature pH		:	No data available	9
			:	No data available	9
			:	No data available	
	Viscos Viso	ity cosity, kinematic	:	5,3 - 5,7 mm2/s ((25 °C)
	Solubil Wa	ity(ies) ter solubility	:	practically insolu	ble
	Sol	ubility in other solvents	:	Solvent: Ethanol soluble	
	Partitio octano	n coefficient: n- I/water	:	log Pow: -0,54	
	Vapou	r pressure	:	No data available	9
	Relativ	e density	:	0,94 - 0,96	
	Density	4	:	No data available	9
	Relativ	e vapour density	:	No data available	9
		e characteristics ticle size	:	Not applicable	
9.2	Other in	nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapoi	ration rate	:	No data available	9
	Molecu	ılar weight	:	No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Flammable liquid and vapour.



Version 5.0	Revision Date: 28.09.2024		S Number: 37959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
				form explosive mixture with air. a strong oxidizing agents.
	litions to avoid		Heat, flames a	and sharks
Cond		•	Tieat, liames a	anu spaiks.
	npatible materials			
Mater	rials to avoid	:	Oxidizing age	nts
No ha	rdous decomposition azardous decomposition	on pro	ducts are known	I.
11.1 Infor	mation on hazard cla nation on likely routes	isses		egulation (EC) No 1272/2008
			Ingestion Eye contact	
	e toxicity lassified based on ava	ilable	information.	
Com	oonents:			
N-Me	thyl-2-pyrrolidone:			
Acute	e oral toxicity	:	LD50 (Rat): 4.1	I50 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphe Method: OECD	24 h
Acute	e dermal toxicity	:	LD50 (Rat): > 5	5.000 mg/kg
II Pron:	an-2-ol:			
	e oral toxicity	:	LD50 (Rat): > 5	5.000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2 Exposure time: Test atmosphe	6 h
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 5.000 mg/kg
II Butar	none:			
	e oral toxicity	:		2.000 - 5.000 mg/kg ed on data from similar materials
Acute	inhalation toxicity	:	LC50 (Rat): > 2 Exposure time:	

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



Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
			nere: vapour CD Test Guideline 436 sed on data from similar materials
Acut	e dermal toxicity	: LD50 (Rabbi	:): > 5.000 mg/kg
6-Oc	tenal, 3,7-dimethyl-:		
	e oral toxicity	: LD50 (Rat, fe	male): 2.150 mg/kg
Acut	e dermal toxicity	: LD50 (Rabbi	:): > 2.500 - 5.000 mg/kg
Flua	zuron:		
Acut	e oral toxicity	: LD50 (Rat): : Method: OE0	⊳ 5.000 mg/kg CD Test Guideline 401
Acut	e inhalation toxicity		
Acut	e dermal toxicity	: LD50 (Rat): Method: OE0	> 2.000 mg/kg CD Test Guideline 402
2.6-1	Di-tert-butyl-p-cresol:		
	e oral toxicity	: LD50 (Rat): Method: OE0	• 6.000 mg/kg CD Test Guideline 401
Acut	e dermal toxicity		 2.000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
	corrosion/irritation ses skin irritation.		
Com	ponents:		
N-M	ethyl-2-pyrrolidone:		
Res	ult	: Skin irritation	
Prop	oan-2-ol:		
Spec	cies	: Rabbit : No skin irritat	ion
III.763	an		
	anone: essment	: Repeated ex	posure may cause skin dryness or cracking.
Spe	cies	: Rabbit	
Meth	nod	: OECD Test (Buideline 404

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



Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019			
Res Ren			No skin irritationBased on data from similar materials			
6-O	ctenal, 3,7-dimethyl-:					
Spe	cies	: Rabbit				
Res	ult	: Skin irritation				
Flua	azuron:					
Spe	cies	: Rabbit				
Met			OECD Test Guideline 404			
Res	ult	: No skin irritatio	n			
2,6-	Di-tert-butyl-p-cresol:					
Spe		: Rabbit				
Met		: OECD Test Gu				
Res	narks	: No skin irritatio	from similar materials			
<u>Cor</u> N-M	ises serious eye irritation nponents: lethyl-2-pyrrolidone:					
Spe Res		: Rabbit : Irritation to eye	es, reversing within 21 days			
	pan-2-ol:					
Spe		: Rabbit				
Res	ult	: Irritation to eye	es, reversing within 21 days			
	anone:					
	cies	: Rabbit				
Met Res		: OECD Test Gu	s, reversing within 21 days			
~ ~	otonol 27 dimethod					
6-0 Spe	ctenal, 3,7-dimethyl-:	: Rabbit				
Res			es, reversing within 21 days			
Flua	azuron:					
	cies	: Rabbit				
Met	hod	: OECD Test Gu				
Res	ult	: Mild eye irritati	on			
2,6-	Di-tert-butyl-p-cresol:					
Spe		: Rabbit				

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



Fluazuron / Citronellal Formulation

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.07.2024
5.0		4637959-00015	Date of first issue: 09.07.2019
Meth	od	: OECD Test Gu	
Resu	Ilt	: No eye irritatior	
Rem	arks	: Based on data	

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

N-Methyl-2-pyrrolidone:

: Local lymph node assay (LLNA)
: Skin contact
: Mouse
: OECD Test Guideline 429
: negative
: Based on data from similar materials

Propan-2-ol:

Test Type	:	Buehler Test
Test Type Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Species Method Result	:	negative

Butanone:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Species Method	:	OECD Test Guideline 406
Result	:	negative

6-Octenal, 3,7-dimethyl-:

Test Type Exposure routes Species Result	 Maximisation Test Skin contact Guinea pig positive
Assessment	: Probability or evidence of skin sensitisation in humans
Fluazuron: Exposure routes	: Skin contact

: Guinea pig : negative

Species Result

2,6-Di-tert-butyl-p-cresol:

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



Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019			
Test T Expos Specie Resul	sure routes es	 Human repeat insult patch test (HRIPT) Skin contact Humans negative 				
	cell mutagenicity assified based on avail	ble information.				
Comp	oonents:					
N-Met	thyl-2-pyrrolidone:					
Genot	toxicity in vitro		cterial reverse mutation assay (AMES) D Test Guideline 471 /e			
			vitro mammalian cell gene mutation test D Test Guideline 476 ve			
			A damage and repair, unscheduled DNA syn- nalian cells (in vitro) /e			
Genot	oxicity in vivo	cytogenetic as Species: Mous Application Ro	ute: Ingestion D Test Guideline 474			
		cytogenetic tes Species: Ham Application Ro	ute: Ingestion) Test Guideline 475			
Propa	an-2-ol:					
	toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) /e			
		Test Type: In N Result: negativ	vitro mammalian cell gene mutation test ve			
Genot	toxicity in vivo	cytogenetic as Species: Mous	e ute: Intraperitoneal injection			
-						

Butanone:

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



Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
		Test Type: Ch Result: negati	rromosome aberration test in vitro ve
			NA damage and repair, unscheduled DNA syn- malian cells (in vitro) ve
		Test Type: Sa (in vitro) Result: negati	uccharomyces cerevisiae, gene mutation assay
Geno	toxicity in vivo	cytogenetic as Species: Mou	se oute: Intraperitoneal injection
6-Oct	enal, 3,7-dimethyl-:		
	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
			vitro mammalian cell gene mutation test D Test Guideline 476 ve
			vitro micronucleus test D Test Guideline 487 ve
Geno	toxicity in vivo	cytogenetic as Species: Mou Application Ro Result: negati	se Dute: Ingestion
Fluaz	uron:		
	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: DN Result: negati	
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve

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



Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-0001	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019		
Genot	oxicity in vivo	Species: Ha	: Test Type: Cytogenetic assay Species: Hamster Result: equivocal		
2,6-Di	-tert-butyl-p-cresol:				
Genot	Genotoxicity in vitro		Bacterial reverse mutation assay (AMES) ative		
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative		
		Test Type: Result: neg	Chromosome aberration test in vitro ative		
Genot	oxicity in vivo	cytogenetic Species: Ra	Route: Ingestion		

Carcinogenicity

Not classified based on available information.

Components:

N-Methyl-2-pyrrolidone:

Species	: Rat
Application Route	: Ingestion
Exposure time	: 2 Years
Result	: negative
Species	: Rat
Application Route	: inhalation (vapour)
Exposure time	: 2 Years
Result	: negative

Propan-2-ol:

Species	:	Rat
Application Route	:	inhalation (vapour)
Exposure time	:	104 weeks
Method	:	OECD Test Guideline 451
Species Application Route Exposure time Method Result	:	negative

6-Octenal, 3,7-dimethyl-:

Species Application Route Exposure time Result Remarks	: Rat
Application Route	: Ingestion
Exposure time	: 104 - 105 weeks
Result	: negative
Remarks	: Based on data from similar materials

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



Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
	cation Route sure time t	: Mouse : Ingestion : 104 - 105 weel : negative : Based on data	s from similar materials
Fluaz	uron:		
	cation Route sure time od	: Rat : Ingestion : 2 Years : OECD Test Gu : negative	ideline 453
	cation Route sure time	: Mouse : Ingestion : 2 Years : negative	
	i-tert-butyl-p-cresol:		
Speci Applic Expos Resul	cation Route sure time	: Rat : Ingestion : 22 Months : negative	
May c	oductive toxicity lamage the unborn chil	d.	
	oonents:		
	thyl-2-pyrrolidone: s on fertility	Species: Rat Application Ro	Test Guideline 416
Effect ment	s on foetal develop-	Species: Rat Application Ro	Test Guideline 414
		Species: Rat	tility/early embryonic development ute: inhalation (vapour)
		Test Type: Em Species: Rabb Application Ro Result: positive	ute: Ingestion

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



Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
Repro sessn	oductive toxicity - As- nent	: Clear eviden animal expe	ce of adverse effects on development, based on riments.
Propa	an-2-ol:		
Effect	s on fertility	Species: Ra	Route: Ingestion
Effect ment	s on foetal develop-	Species: Ra	Route: Ingestion
Butar	none:		
Effect	s on fertility	Species: Ra Application F Result: nega	Route: Ingestion
Effect ment	s on foetal develop-	Species: Ra Application F	Route: Inhalation CD Test Guideline 414
II 6 Oct	onal 27 dimathul i		
	enal, 3,7-dimethyl-: s on fertility	Species: Ra Application F Method: OE Result: nega	Route: Ingestion CD Test Guideline 443
Effect ment	s on foetal develop-	Species: Ra Application F Method: OE Result: nega	Route: Ingestion CD Test Guideline 443
Fluaz	uron:		
	s on fertility	Species: Ra	Route: Ingestion
Effect	s on foetal develop-	: Test Type: E	mbryo-foetal development

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



Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
ment		Species: Rat Application R Result: negat	oute: Ingestion ive
		Species: Rab Application R	oute: Ingestion D Test Guideline 414
 2,6-D	i-tert-butyl-p-cresol:		
	ts on fertility	Species: Rat	vo-generation reproduction toxicity study oute: Ingestion ive
Effec ment	ts on foetal develop-	Species: Rat	nbryo-foetal development oute: Ingestion ive
	F - single exposure cause respiratory irritati	ion.	
Com	ponents:		
	thyl-2-pyrrolidone:		
Asse	ssment	: May cause re	spiratory irritation.
Prop	an-2-ol:		
-	ssment	: May cause dr	owsiness or dizziness.
Buta	none:		
	ssment	: May cause dr	owsiness or dizziness.
	F - repeated exposure lassified based on avai		
Com	ponents:		
2,6-D	i-tert-butyl-p-cresol:		
Asse	ssment		health effects observed in animals at concentra- ng/kg bw or less.
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
Soya	oil:		
Spec		: Rat	

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



Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
	L ation Route ure time	: 4.000 mg/kg : Ingestion : 90 h	
N-Met	hyl-2-pyrrolidone:		
	L L ation Route ure time	: Rat, male : 169 mg/kg : 433 mg/kg : Ingestion : 90 Days : OECD Test Gui	deline 408
	L L ation Route ure time	: Rat : 0,5 mg/l : 1 mg/l : inhalation (dust/ : 96 Days : OECD Test Gui	
Specie NOAE LOAE Applic Expos	Ľ	: Rabbit : 826 mg/kg : 1.653 mg/kg : Skin contact : 20 Days	
Propa	ın-2-ol:		
		: Rat : 12,5 mg/l : inhalation (vapo : 104 Weeks	ur)
Butan	one:		
Specie NOAE Applic Expos Metho	L ation Route ure time	: Rat : 14,84 mg/l : inhalation (vapo : 90 Days : OECD Test Gui	
6-Octe	enal, 3,7-dimethyl-:		
	L ation Route ure time	: Rat : > 100 mg/kg : Ingestion : 14 Weeks : Based on data f	rom similar materials
Fluazi	urop.		

Fluazuron:

Species

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



Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024		DS Number: 37959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
Exposi	ation Route ure time Organs	: :	240 mg/kg Ingestion 13 Weeks Liver, Thyroid, Pit	uitary gland
Specie NOAEI LOAEL Applica Exposi	ation Route	::	Rat 10 mg/kg 100 mg/kg Skin contact 3 Weeks	
Exposi	L		Dog 7,5 mg/kg 110 mg/kg Ingestion 52 Weeks Liver	
2,6-Di-	tert-butyl-p-cresol:			
Specie NOAEI		:	Rat 25 mg/kg	

NOAEL	: 25 mg/kg
Application Route	: Ingestion
NOAEL Application Route Exposure time	: 22 Months

Aspiration toxicity

Not classified based on available information.

Components:

Butanone:

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

11.2 Information on other hazards

Endocrine disrupting properties

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.

Experience with human exposure

Components:

N-Methyl-2-pyrrolidone:

Skin contact

: Symptoms: Skin irritation

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



Fluazuron / Citronellal Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.0	28.09.2024	4637959-00015	Date of first issue: 09.07.2019

SECTION 12: Ecological information

12.1 Toxicity

Components:

N-Methyl-2-pyrrolidone:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 24 h Method: DIN 38412
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 600,5 mg/l Exposure time: 72 h
		EC10 (Desmodesmus subspicatus (green algae)): 92,6 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 : > 600 mg/l Exposure time: 30 min Method: ISO 8192
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 12,5 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
Propan-2-ol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 24 h
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 1.050 mg/l Exposure time: 16 h
Butanone:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 2.993 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 308 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 2.029 mg/l Exposure time: 96 h

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



	enal, 3,7-dimethyl-:		mg/l Exposure time: 96	rchneriella subcapitata (green algae)): 1.240
	enal, 3,7-dimethyl-:		mg/l Exposure time: 96	
	enal, 3,7-dimethyl-:		Method: OECD 1	6 h est Guideline 201
6-Octo	· · · · · · · · · · · · · · · · · · ·			
	ty to fish	:	LC50 (Leuciscus Exposure time: 96 Method: DIN 384	
	ty to daphnia and other c invertebrates	:	Exposure time: 48	nagna (Water flea)): 8,7 mg/l 3 h e 67/548/EEC, Annex V, C.2.
Toxicit plants	ty to algae/aquatic	:	ErC50 (Desmode Exposure time: 72	smus subspicatus (green algae)): 13,33 mg/l 2 h
			EC10 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 4,52 mg/l 2 h
Toxicit	ty to microorganisms	:	EC10 (Pseudomo Exposure time: 30	onas putida): 650 mg/l) min
Fluazu	uron:			
	ty to fish	:	LC50 (Cyprinus c Exposure time: 96	arpio (Carp)): > 9,1 mg/l 6 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia s Exposure time: 48	p. (water flea)): 0,0006 mg/l 3 h
Toxicit plants	ty to algae/aquatic	:	NOEC (Raphidoc 27,9 mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 2 h
M-Fac icity)	tor (Acute aquatic tox-	:	1.000	
M-Fac toxicity	tor (Chronic aquatic y)	:	1.000	
	-tert-butyl-p-cresol:			
Toxicit	ty to fish	:	Exposure time: 96	o (zebra fish)): > 0,57 mg/l 5 h e 67/548/EEC, Annex V, C.1.
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxicit	ty to algae/aquatic	:	ErC50 (Pseudokii	rchneriella subcapitata (green algae)): > 0,24

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



Fluazuron / Citronellal Formulation

Versio 5.0	on	Revision Date: 28.09.2024		9S Number: 37959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
p	lants			•	
				mg/l Exposure time: 72 Method: OECD Te	
	/I-Facto city)	or (Acute aquatic tox-	:	1	
Т	oxicity	to microorganisms	:	EC50 : > 10.000 r Exposure time: 3 Method: OECD Te	h
	oxicity city)	to fish (Chronic tox-	:	NOEC: 0,053 mg/ Exposure time: 30 Species: Oryzias Method: OECD To) d latipes (Japanese medaka)
а		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21	
	/I-Facto oxicity)	or (Chronic aquatic	:	1	
12.2 P	12.2 Persistence and degradabil		ity		
<u>C</u>	compo	nents:			
		yl-2-pyrrolidone: adability	:	Result: Readily bi Biodegradation: 7 Exposure time: 28 Method: OECD Te	73 %
P	Propan	-2-ol:			
В	Biodegr	adability	:	Result: rapidly de	gradable
В	BOD/CO	DD	:	BOD: 1,19 (BOD5 COD: 2,23 BOD/COD: 53 %	5)
	Butano	-			
В	Biodegr	adability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD To	98 %

6-Octenal, 3,7-dimethyl-:

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



Version 5.0	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.07.20244637959-00015Date of first issue: 09.07.2019				
Biodegradability		 Result: Readily biodegradable. Biodegradation: 83 % Exposure time: 28 d Method: OECD Test Guideline 301B 				
	i-tert-butyl-p-cresol: egradability	Result: Not readily biodegradable. Biodegradation: 4,5 % Exposure time: 28 d Method: OECD Test Guideline 301C				
12.3 Bioa	ccumulative potential					
<u>Com</u>	oonents:					
	oil: ion coefficient: n- ol/water	: log Pow: > 4 Remarks: Calculation				
N-Methyl-2-pyrrolidone: Partition coefficient: n- octanol/water		: log Pow: -0,46 Method: OECD Test Guideline 107				
Propa	an-2-ol:					
Partit	ion coefficient: n- ol/water	: log Pow: 0,05				
	n one: ion coefficient: n- ol/water	: log Pow: 0,3				
Partit	tenal, 3,7-dimethyl-: ion coefficient: n- ol/water	: log Pow: 3,62				
Fluaz	uron:					
	ion coefficient: n- ol/water	: log Pow: 5,1				
	i-tert-butyl-p-cresol:					
Bioac	cumulation	: Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 330 - 1.800				
	ion coefficient: n- ol/water	: log Pow: 5,1				
12.4 Mobi	lity in soil					
	ata available					
12.5 Resu	lts of PBT and vPvB a	sessment				
Produ						

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



Fluazuron / Citronellal Formulation

te v	o be either per rery persistent	sistent, bioaccumulative and toxic (PBT), or	
	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.		
properties			
Assessment : The substance/mixture does not contain components correct to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/60 levels of 0.1% or higher.			
		levels of 0.1% of 0.1\%	

13.1 Waste treatment methods

Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: UN 1993	
ADR	: UN 1993	
RID	: UN 1993	
IMDG	: UN 1993	
ΙΑΤΑ	: UN 1993	

14.2 UN proper shipping name

ADN

: FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Butanone)



Vers 5.0	sion	Revision Date: 28.09.2024		0S Number: 37959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019		
	ADR		:	FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Butanone)			
	RID			FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Butanone)			
	IMDG			FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Butanone, Fluazuron, 2,6-Di-tert-butyl-p-cresol)			
ΙΑΤΑ			:	Flammable liquid, n.o.s. (Propan-2-ol, Butanone)			
14.3	Transp	oort hazard class(es)					
				Class	Subsidiary risks		
	ADN		:	3			
	ADR		:	3			
	RID		:	3			
	IMDG		:	3			
ΙΑΤΑ		:	3				
14.4 Packing group							
	Classif	g group ication Code I Identification Number	:	III F1 30 3			
	Classif Hazard Labels	g group ication Code I Identification Number restriction code	:	III F1 30 3 (D/E)			
	Classif	g group ication Code I Identification Number	:	III F1 30 3			
	IMDG Packin Labels EmS C	g group ode	:	III 3 F-E, <u>S-E</u>			
	Packin aircraft Packin	g instruction (LQ) g group	:	366 Y344 III Flammable Liquic	ls		

IATA (Passenger)

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



Fluazuron / Citronellal Formulation

Vers 5.0	sion	Revision Date: 28.09.2024		DS Number: 37959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
	ger airo Packin	g instruction (LQ)	:	355 Y344	
	Packin Labels	g group	:	III Flammable Liquid	ds
14.5 Environmental hazards					
	ADN Enviror	nmentally hazardous	:	yes	
	ADR Enviror	nmentally hazardous	:	yes	
	RID Enviror	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	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

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

ne	
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) 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 3 Number on list 30: N-Methyl-2- pyrrolidone
	Number on list 71: N-Methyl-2- pyrrolidone
REACH - Restrictions on the manufacture, placing on	Number on list 72: N-Methyl-2- pyrrolidone
the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their

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



Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024	SDS Number: 4637959-00015		f last issue: 06.07. f first issue: 09.07.	
				restriction. Pleas tions in correspo determine wheth	he conditions of the refer to the condi- nding Regulation to er an entry is appli- ing on the market or
	H - Candidate List of ern for Authorisation (A	Substances of Very High Article 59).	n :	N-Methyl-2-pyrro	olidone
	H - List of substances	subject to authorisation	:	Not applicable	
		ces that deplete the ozo	ne :	Not applicable	
Regula	ation (EU) 2019/1021 recast)	on persistent organic po	ollu- :	Not applicable	
Regula ment a	ation (ÉU) No 649/201	I2 of the European Parlia erning the export and imp		Not applicable	
Seves	o III: Directive 2012/1	8/EU of the European Pa Iving dangerous substa		t and of the Counc	il on the control of
				Quantity 1	Quantity 2

P5c	FLAMMABLE LIQUIDS	Quantity 1 5.000 t	Quantity 2 50.000 t
P5c E1	ENVIRONMENTAL HAZARDS	100 t	200 t

Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

H315

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
H225	:	Highly flammable liquid and vapour.

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



Fluazuron / Citronellal Formulation

Version 5.0	Revision Date: 28.09.2024		9S Number: 37959-00015	Date of last issue: 06.07.2024 Date of first issue: 09.07.2019
H317 H319 H335 H336 H360D H400 H410 H413 EUH06			 May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May damage the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life. Repeated exposure may cause skin dryness or cracking. 	
Full tex	xt of other abbreviat	ons		
Aquatio	c Acute c Chronic t. .iq. it. ens. SE 9/EC		Europe. Commiss list of indicative of Europe. Directive	c) aquatic hazard
2009/1	61/EU	:	Europe. COMMIS a third list of indica	SION DIRECTIVE 2009/161/EU establishing ative occupational exposure limit values in Council Directive 98/24/EC and amending ctive 2000/39/EC
	011-12-06-1358	:		onal Exposure limits
	9/EC / TWA	:	Limit Value - eight	
	9/EC / STEL 7/EC / STEL	÷	Short term exposu	
	7/EC / TWA	:	Short term exposure limit Long term exposure limit	
	61/EU / TWA	÷	Limit Value - eight	
	61/EU / STEL	:	Short term exposure limit	
	011-12-06-1358 /	:	Long term exposu	
FOR-20 STEL	011-12-06-1358 /	:	Short term exposi	ure limit

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



Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.0	28.09.2024	4637959-00015	Date of first issue: 09.07.2019

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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to	:
compile the Safety Data	
Sheet	

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Classification of the mixtu	re:	Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 1B	H360D	Calculation method
STOT SE 3	H335	Calculation method
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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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Fluazuron / Citronellal Formulation

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SDS Number: 4637959-00015 Date of last issue: 06.07.2024 Date of first issue: 09.07.2019