

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
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### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name	:	Fluralaner / Moxidectin Liquid Formulation
Other means of identification	:	Bravecto Plus (A011446) BRAVECTO PLUS FLEA, TICK AND WORM 112.5 MG FLURALANER AND 5.6 MG MOXIDECTIN SPOT-ON SOLUTION FOR KITTENS AND SMALL CATS (85418) BRAVECTO PLUS FLEA, TICK AND WORM 250 MG FLURALANER AND 12.5 MG MOXIDECTIN SPOT-ON SOLUTION FOR MEDIUM CATS (85416) BRAVECTO PLUS FLEA, TICK AND WORM 500 MG FLURALANER AND 25 MG MOXIDECTIN SPOT-ON SOLUTION FOR LARGE CATS (85413)

#### 1.2 Relevant identified uses of the substance 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 safety data sheet

Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person	:	EHSDATASTEWARD@msd.com

E-mail address of person responsible for the SDS

#### **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 2 Skin irritation, Category 2 Eye irritation, Category 2 Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure, Category 2 H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H360D: May damage the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.



/ersion 1.0	Revision Date: 28.09.2024		DS Number 57384-0002	Date of last issue: 06.07.2024 Date of first issue: 02.05.2016
gory 1	term (acute) aquatic			H400: Very toxic to aquatic life.
egory	erm (chronic) aquatio 1	; naz	ard, Cat-	H410: Very toxic to aquatic life with long lasting effects.
2.2 Label e	elements			
	ing (REGULATION	(EC)	No 1272/20	8)
Hazaro	d pictograms	:		
Signal	word	:	Danger	• • •
Hazaro	d statements	:	H315 Ca H319 Ca H360D Ma H373 Ma repeated e	hly flammable liquid and vapour. uses skin irritation. uses serious eye irritation. v damage the unborn child. v cause damage to organs through prolonged or posure. y toxic to aquatic life with long lasting effects.
Precau	utionary statements	:	Preventio	:
			P210 Ke flames and P273 Av	ain special instructions before use. p away from heat, hot surfaces, sparks, open other ignition sources. No smoking. id release to the environment. ar protective gloves/ protective clothing/ eye protec- otection.
			Response P308 + P3 attention. P391 Co	3 IF exposed or concerned: Get medical advice/

N,N-Dimethylacetamide Moxidectin

Restricted to professional users.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive 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.



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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.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
N,N-Dimethylacetamide	127-19-5 204-826-4 616-011-00-4	Acute Tox. 4; H332 Acute Tox. 4; H312 Eye Irrit. 2; H319 Repr. 1B; H360D Acute toxicity esti- mate Acute inhalation toxicity (dust/mist): 2,2 mg/l Acute dermal toxici- ty: 1.100 mg/tg	>= 30 - < 50
Fluralaner	864731-61-3	ty: 1.100 mg/kg Repr. 2; H361d Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1.000	>= 25 - < 30
Poly(oxy-1,2-ethanediyl), .alpha [(tetrahydro-2-furanyl)methyl]- .omegahydroxy-	31692-85-0	Eye Irrit. 2; H319	>= 20 - < 30
N,N-Diethyl-m-toluamide	134-62-3 205-149-7 616-018-00-2	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity: 1.892 mg/kg	>= 10 - < 20
Acetone	67-64-1 200-662-2 606-001-00-8	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	>= 10 - < 20

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

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Moxic		113507-06-	Acute Tox. 4; H332 Eye Irrit. 2; H319 Repr. 2; H361d STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000	>= 1 - < 2,5
2,6-D	i-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25

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 soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.



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			Thoroughly clean	shoes before reuse.	
In ca	se of eye contact		for at least 15 mi	ove contact lens, if worn.	
If swallowed			If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.		
4.2 Most i	mportant symptoms a	nd ef	fects, both acute	e and delayed	
Risks			Causes skin irrita Causes serious e May damage the May cause dama exposure.	eye irritation.	
4.3 Indica	tion of any immediate	medi	ical attention and	d special treatment needed	
Treat	ment	:	Treat symptomat	ically and supportively.	
SECTION	N 5: Firefighting meas	sure	S		
5.1 Exting	uishing media				
-	ble extinguishing media		Water spray Alcohol-resistant Carbon dioxide (( Dry chemical		
Unsu media	itable extinguishing a	:	High volume wate	er jet	
5.2 Specia	al hazards arising from	the	substance or mi	xture	
Specific hazards during fire- fighting		:	<ul> <li>Do not use a solid water stream as it may scatter and s fire.</li> <li>Flash back possible over considerable distance.</li> <li>Vapours may form explosive mixtures with air.</li> <li>Exposure to combustion products may be a hazard to</li> </ul>		
				m explosive mixtures with air.	

Hazardous combustion prod-	:	Carbon oxides
ucts		Chlorine compounds
		Fluorine compounds
		Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.



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for firefighters		Use personal protective equipment.			
Specif ods	ic extinguishing meth-	cumstances and Use water spray	ng measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do		

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

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### **6.2 Environmental precautions**

	Environmental precautions	Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages
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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	<ul> <li>Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding extain local or national requiremente.</li> </ul>
	certain local or 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



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	ical measures Total ventilation	CONTROLS/F : If sufficient ver ventilation.	ng measures under EXPOSURE PERSONAL PROTECTION section. ntilation is unavailable, use with local exhaust -proof electrical, ventilating and lighting equip-
	e on safe handling ne measures	<ul> <li>ment.</li> <li>Do not get on Do not breathe Do not swallow Do not get in e Wash skin tho Handle in accor practice, base sessment Non-sparking Keep containe Keep away fro other ignition s Take precaution Do not eat, dri Take care to p environment.</li> <li>If exposure to flushing system place. When u nated clothing The effective of engineering co appropriate de industrial hygin</li> </ul>	skin or clothing. e mist or vapours. w.
7.2 Condit	ions for safe storage,	including any inco	ompatibilities
•	rements for storage and containers	tightly closed. accordance w	rly labelled containers. Store locked up. Keep Keep in a cool, well-ventilated place. Store in ith the particular national regulations. Keep at and sources of ignition.
Advice	e on common storage	Strong oxidizin Self-reactive s Organic perox Flammable sc Pyrophoric liq Pyrophoric so Self-heating s Substances a flammable gas Explosives Gases	substances and mixtures tides uids uids lids ubstances and mixtures nd mixtures, which in contact with water, emit

### 7.3 Specific end use(s)

Commission Regulation (EU) 2020/878



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Spec	ific use(s)	: No data availa	ble

### **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,N-	127-19-5	TWA	10 ppm	FOR-2011-			
Dimethylacetamide	121 10 0		36 mg/m3	12-06-1358			
	Further inform	nation: Substances of	considered to be reprotoxic				
	can be absorbed through the skin.						
		STEL	20 ppm	FOR-2011-			
			72 mg/m3	12-06-1358			
	Further inform	nation: Substances of	onsidered to be reprotoxic	c, Chemicals that			
	can be absor	bed through the skin	•				
		TWA	10 ppm	2000/39/EC			
			36 mg/m3				
			possibility of significant up	otake through the			
	skin, Indicativ						
		STEL	20 ppm	2000/39/EC			
			72 mg/m3				
	Further information: Identifies the possibility of significant uptake through the						
	skin, Indicative						
		TWA	10 ppm	2004/37/EC			
			36 mg/m3				
	Further information: Skin, Carcinogens or mutagens						
		STEL	20 ppm	2004/37/EC			
			72 mg/m3				
	Further information: Skin, Carcinogens or mutagens						
Fluralaner	864731-61-	TWA	100 µg/m3 (OEB 2)	Internal			
	3						
	Further information: Skin						
		Wipe limit	1000 µg/100 cm <sup>2</sup>	Internal			
Acetone	67-64-1	TWA	125 ppm	FOR-2011-			
			295 mg/m3	12-06-1358			
		TWA	500 ppm	2000/39/EC			
			1.210 mg/m3				
	Further information: Indicative						
Moxidectin	113507-06- 5	TWA	10 µg/m3 (OEB 3)	Internal			
	-	Wipe limit	100 µg/100 cm <sup>2</sup>	Internal			

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
N,N- Dimethylacetamide	Workers	Inhalation	Long-term systemic effects	36 mg/m3

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I		Workers	Inhalation	Acute systemic ef- fects	36 mg/m3
		Workers	Skin contact	Acute systemic ef- fects	13,6 mg/kg bw/day
		Consumers	Inhalation	Long-term local ef- fects	7 mg/m3
		Consumers	Skin contact	Long-term systemic effects	2,7 mg/kg bw/day
[ [ ] ]		Consumers	Ingestion	Long-term systemic effects	1 mg/kg bw/day
Aceto	ne	Workers	Inhalation	Long-term systemic effects	1210 mg/m3
		Workers	Inhalation	Acute local effects	2420 mg/m3
		Workers	Skin contact	Long-term systemic effects	186 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	200 mg/m3
		Consumers	Skin contact	Long-term systemic effects	62 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	62 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
Fluralaner	Water	7 ng/l
Moxidectin	Water	0,3 ng/l
N,N-Dimethylacetamide	Fresh water	0,5 mg/l
	Marine water	0,0966 mg/l
	Intermittent use/release	5 mg/l
	Sewage treatment plant	485 mg/l
	Fresh water sediment	2,27 mg/kg
	Soil	0,15 mg/kg
Acetone	Fresh water	10,6 mg/l
	Marine water	1,06 mg/l
	Intermittent use/release	21 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	30,4 mg/kg dry
		weight (d.w.)
	Marine sediment	3,04 mg/kg dry
		weight (d.w.)
	Soil	29,5 mg/kg dry
		weight (d.w.)



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2,6-Di-tert-butyl-p-cresol	Fresh water	0,199 μg/l
	Intermittent use/release	0,02 µg/l
	Marine water	0,02 µg/l
	Sewage treatment plant	0,17 mg/l
	Fresh water sediment	0,0996 mg/kg dry
		weight (d.w.)
	Marine sediment	0,00996 mg/kg
		dry weight (d.w.)
	Soil	0,04769 mg/kg
		dry weight (d.w.)
	Oral (Secondary Poisoning)	8,33 mg/kg food

### 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

Eye/face protection	:	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 protection		
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.
Skin and body protection	:	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 contaminated clothing.
Respiratory protection	:	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 137
Filter type	:	Self-contained breathing apparatus

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

### 9.1 Information on basic physical and chemical properties



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P	Physical state		:	liquid			
С	Colour		:	Colorless to pale yellow			
0	Odour		:	No data available			
0	Odour Threshold		:	No data available	No data available		
М	Melting point/freezing point		:	No data available	9		
	Initial boiling point and boiling range		:	No data available			
FI	lamma	bility (solid, gas)	:	Not applicable			
FI	lamma	bility (liquids)	:	Not applicable			
		xplosion limit / Upper pility limit	:	No data available			
		xplosion limit / Lower pility limit	:	No data available			
FI	Flash point		:	2 °C Method: closed c	up		
A	uto-igr	nition temperature	:	No data available			
D	ecomp	oosition temperature	:	No data available			
pl	Н		:	No data available			
Vi	iscosit Visco	y osity, kinematic	:	7,5 mm2/s			
S	olubilit Wate	y(ies) er solubility	:	No data available	3		
	artition ctanol/	a coefficient: n- water	:	Not applicable			
V	apour	pressure	:	No data available	)		
R	elative	density	:	1,06			
D	ensity		:	1,08 g/cm <sup>3</sup>			
R	elative	vapour density	:	No data available			
P	article	characteristics					



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Pa	rticle size	: Not a	pplicable		
9.2 Other i	information				
Explo	sives	: Not e	xplosive		
Oxidiz	zing properties	: The s	substance or	mixture is not classified as oxidizing.	
Evapo	pration rate	: No da	ata available		
SECTION	I 10: Stability and r	eactivity			
10.1 React	-				
	assified as a reactivity	hazard.			
	nical stability e under normal conditi	ons			
<b>10.3 Possibility of hazardous rea</b> Hazardous reactions		: Highl Vapo	Highly flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.		
10.4 Cond	litions to avoid				
Condi	tions to avoid	: Heat,	Heat, flames and sparks.		
10.5 Incon	npatible materials				
Mater	ials to avoid	: Oxidi	zing agents		
10.6 Hazaı	rdous decompositio	n products			
No ha	zardous decompositio	n products a	re known.		
SECTION	111: Toxicological	information	า		
	-				
			-	lation (EC) No 1272/2008	
	nation on likely routes		tion ontact		
expos		Ingest			
		Eye co	ontact		
Acute	e toxicity				

Not classified based on available information.

### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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			Method: Calculati	ion method
Acute	Acute dermal toxicity		Acute toxicity esti Method: Calculati	imate: > 2.000 mg/kg ion method
<u>Comp</u>	oonents:			
N,N-D	imethylacetamide:			
	Acute oral toxicity		LD50 (Rat): 4.800	) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 2,2 m Exposure time: 4 Test atmosphere:	ĥ
Acute	dermal toxicity	:	Method: Expert ju	imate: 1.100 mg/kg udgement on national or regional regulation.
Flural	aner:			
Acute	oral toxicity	:		00 mg/kg rtality observed at this dose. verse effects were reported
Acute	dermal toxicity	:	LD50 (Rat): > 2.0 Remarks: No sigr	00 mg/kg nificant adverse effects were reported
Polv(c	oxv-1.2-ethanedivl).	alpha	aI(tetrahvdro-2-f	uranyl)methyl]omegahydroxy-:
	oral toxicity	-	LD50 (Rat, female Method: OECD T	
N.N-D	iethyl-m-toluamide:			
	oral toxicity	:	LD50 (Rat): 1.892	2 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 5,95 Exposure time: 4 Test atmosphere:	h
Acute	dermal toxicity	:	LD50 (Rat): 5.000	) mg/kg
Aceto	ne:			
	oral toxicity	:	LD50 (Rat): 5.800	) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 76 m Exposure time: 4 Test atmosphere:	h
Acute	dermal toxicity	:	LD50 (Rabbit): 7.	426 mg/kg



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Мох	videctin:			
	te oral toxicity	:	LD50 (Rat): 106 n	ng/kg
	Acute inhalation toxicity		LD50 (Mouse): 42	2 - 84 mg/kg
Acu			LC50 (Rat): 3,28 Exposure time: 5 Test atmosphere:	h
			LC50 (Rat): 2,87 - Test atmosphere:	
Acu	te dermal toxicity	:	LD50 (Rabbit): > 2 Remarks: No sign	2.000 mg/kg ificant adverse effects were reported
	te toxicity (other routes of inistration)	:	LD50 (Rat): 394 n Application Route	
			LD50 (Mouse): 84 Application Route	
			LD50 (Rat): > 640 Application Route	
			LD50 (Mouse): 26 Application Route	
2.6-	Di-tert-butyl-p-cresol:			
	te oral toxicity	:	LD50 (Rat): > 6.00 Method: OECD Te	
Acu	te dermal toxicity	:	<ul> <li>LD50 (Rat): &gt; 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity</li> </ul>	
	n corrosion/irritation ses skin irritation.			
<u>Con</u>	nponents:			
	-Dimethylacetamide:			
Spe Res		:	Rabbit No skin irritation	
Flur Spe Res		:	Rabbit No skin irritation	

### Poly(oxy-1,2-ethanediyl), .alpha.-[(tetrahydro-2-furanyl)methyl]-.omega.-hydroxy-:



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Metho	Species Method Remarks		<ul> <li>reconstructed human epidermis (RhE)</li> <li>OECD Test Guideline 439</li> <li>Based on data from similar materials</li> </ul>				
Resul	Result		: No skin irritation				
N,N-D	N,N-Diethyl-m-toluamide:						
	Species						
Resul Rema		<ul><li>Skin irritation</li><li>Based on national or regional regulation</li></ul>		or regional regulation.			
Aceto							
Asses	ssment	: Repeate	ed exposur	e may cause skin dryness or cracking.			
Moxic	dectin:						
	Species Result		n irritation				
2,6-Di	i-tert-butyl-p-cresol:						
Speci		: Rabbit					
Metho Resul			Fest Guidel irritation	ine 404			
Rema				n similar materials			
	us eye damage/eye ir es serious eye irritation						
Comp	oonents:						
N,N-D	)imethylacetamide:						
Speci Resul		: Rabbit : Irritation	n to eyes, re	eversing within 21 days			
Flura	laner:						
Speci Resul		: Rabbit : Mild eye	e irritation				
Poly(	oxy-1,2-ethanediyl), .a	Ipha[(tetral	nydro-2-fu	ranyl)methyl]omegahydroxy-:			
Speci		: Tissue (		ing 100			
Metho Rema			Fest Guidel on data fror	ine 492 n similar materials			
Speci	es	: Bovine					
Metho			Fest Guidel				
Rema	IFKS	: Based o	on data fror	n similar materials			
Resul	t	: Irritation	n to eyes, re	eversing within 21 days			



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N,N-[	Diethyl-m-toluamide:	
Spec	ies	: Rabbit
Resu		: Irritation to eyes, reversing within 21 days
Rema	arks	: Based on national or regional regulation.
Acete	one:	
Spec	ies	: Rabbit
Metho		: OECD Test Guideline 405
Resu	lt	: Irritation to eyes, reversing within 21 days
Moxi	dectin:	
Spec		: Rabbit
Resu	lt	: Moderate eye irritation
2,6-D	vi-tert-butyl-p-cresol:	
Spec	ies	: Rabbit
Meth	od	: OECD Test Guideline 405
Resu		: No eye irritation
Rema	arks	: Based on data from similar materials
<b>Resp</b> Not c	lassified based on ava i <b>iratory sensitisation</b> lassified based on ava ponents:	
N,N-[	Dimethylacetamide:	
Expo	sure routes	: Skin contact
Spec	ies	: Guinea pig
Resu	It	: negative
Flura	laner:	
Test		: Maximisation Test
	sure routes	: Dermal
Spec		: Guinea pig
Resu	lt	: Not a skin sensitizer.
Poly(	(oxy-1,2-ethanediyl),	.alpha[(tetrahydro-2-furanyl)methyl]omegahydroxy-:
Test	Туре	: KeratinoSens assay
Meth		: OECD Test Guideline 442D
Resu		: negative
Rema	arks	: Based on data from similar materials
Test	Туре	: Direct Peptide Reactivity Assay (DPRA)
Meth		: OECD Test Guideline 442C



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Resu Rem		<ul><li>positive</li><li>Based on data from similar materials</li></ul>				
Test Meth Resu Rem	ılt	Dendritic cell activation test OECD Test Guideline 442E negative Based on data from similar materials				
Acet	one:					
Test Expo Spec Resu		<ul> <li>Maximisation Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>negative</li> </ul>				
Мохі	idectin:					
Test Expo Spec Resu	osure routes cies	<ul> <li>Buehler Test</li> <li>Dermal</li> <li>Guinea pig</li> <li>Not a skin sensitizer.</li> </ul>				
2,6-D	Di-tert-butyl-p-cresol:					
Test Expo Spec Resu		<ul> <li>Human repeat insult patch test (HRIPT)</li> <li>Skin contact</li> <li>Humans</li> <li>negative</li> </ul>				
	n cell mutagenicity classified based on avail	able information.				
<u>Com</u>	ponents:					
	Dimethylacetamide: ptoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative				
Geno	Genotoxicity in vivo : Test Type: Rodent dominant lethal test (g Species: Rat Application Route: Inhalation Method: OECD Test Guideline 478 Result: negative		)			
•• Flura	alaner:					
Geno	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative				
		Test Type: Mouse Lymphoma Result: negative				
		Test Type: Chromosomal aberration Result: negative				
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Ge	Genotoxicity in vivo		: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative		
Ро	ly(oxy-1,2-ethanediyl), .a	lpha	a[(tetrahydro-2-fu	uranyl)methyl]omegahydroxy-:	
Ge	notoxicity in vitro	:	Method: OECD Te Result: negative	ial reverse mutation assay (AMES) est Guideline 471 on data from similar materials	
	I-Diethyl-m-toluamide:				
	notoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)	
	etone:				
	notoxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test	
			Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)	
			Test Type: Chrom Result: negative	nosome aberration test in vitro	
Ge	notoxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: negative		
	xidectin: notoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)	
				o mammalian cell gene mutation test nese hamster ovary cells	
			Test Type: in vitro Test system: Esch Result: negative		
Ge	notoxicity in vivo	:	Test Type: Chrom Species: Rat Cell type: Bone m Result: negative	nosomal aberration narrow	



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			Test Type: Unsch mammalian liver Species: Rat Cell type: Liver ca Result: negative	
2 6-D	i-tert-butyl-p-cresol:			
	Genotoxicity in vitro		Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: negative	nosome aberration test in vitro
Genc	Genotoxicity in vivo			genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion
11 Corro				
	<b>inogenicity</b> lassified based on availa	abla	information	
		able	iniomation.	
Com	ponents:			
N,N-I	Dimethylacetamide:			
Spec		:	Rat	
	cation Route	:	inhalation (vapou	r)
Resu	sure time It	÷	18 month(s) negative	
		•	galle	
Flura	laner:			
Carci ment	nogenicity - Assess-	:	No data available	
N,N-I	Diethyl-m-toluamide:			
Spec	ies	:	Rat	
Appli	cation Route	:	Ingestion	
Expo Resu	sure time It	:	104 weeks negative	
Acet	one:			
Spec		:	Mouse	
Appli	cation Route	:	Skin contact	
	sure time	:	424 days	
Resu	n	:	negative	

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Moxide	ectin:			
Species Application Route Exposure time NOAEL Result		: : : : : : : : : : : : : : : : : : : :	Mouse Oral 2 Years 4,5 mg/kg body w negative	eight
Species Application Route Exposure time NOAEL Result		: : : : : : : : : : : : : : : : : : : :	Rat Oral 2 Years 4,5 mg/kg body w negative	eight
Species Applica Exposu NOAEL Result	tion Route Ire time	:	Dog Oral 1 Years 0,5 mg/kg body we negative	eight
<b>2,6-Di-tert-butyl-p-cresol:</b> Species Application Route Exposure time Result		:	Rat Ingestion 22 Months negative	
-	ductive toxicity mage the unborn child pnents:			
N,N-Diı	methylacetamide:			
Effects	on fertility	:	Test Type: One-ge Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Inhalation
Effects ment	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: positive	o-foetal development : Inhalation
Reprod sessme	luctive toxicity - As- ent	:	Clear evidence of animal experimen	adverse effects on development, based on ts.
Flurala	ner:			
Effects	on fertility	:	General Toxicity F	-

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## Fluralaner / Moxidectin Liquid Formulation

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		neonatal effec	ts.
		Species: Dog Application Ro Fertility: NOAE Result: No effe ment were det	EL: 75 mg/kg body weight ects on fertility and early embryonic develop-
Effec ment	ts on foetal develop-	Result: Embry	oute: Oral al Toxicity: NOAEL: 100 mg/kg body weight otoxic effects and adverse effects on the off- etected only at high maternally toxic doses, No
		Result: Skelet	bit
			Dit
Repr sess	oductive toxicity - As- ment	: Suspected of	damaging the unborn child.
N,N-	Diethyl-m-toluamide:		
Effec ment	ets on foetal develop-	: Test Type: Em Species: Rat Application Ro Result: negativ	
Acet	one:		
	ts on fertility	: Test Type: On Species: Rat Application Ro Result: negativ	•
Effec ment	ts on foetal develop-	Species: Rat	nbryo-foetal development oute: inhalation (vapour) ve

Moxidectin:

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Effects on fertility		Species: Rat Application F General Tox Symptoms: F Result: No e	
		Species: Rat Application F General Tox Symptoms: F Result: No e	
Effects on foetal develop- ment		Species: Rat Application F General Tox Embryo-foet Result: Skele	
		Species: Ral Application F General Tox Developmen	
Repro sessm	ductive toxicity - As- nent	: Some evider animal exper	nce of adverse effects on development, based internet.
2,6-Di	-tert-butyl-p-cresol:		
Effect	s on fertility	Species: Rat	Route: Ingestion
Effect ment	s on foetal develop-	Species: Rat	Route: Ingestion

### STOT - single exposure

Not classified based on available information.

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<u>Comp</u>	oonents:		
Aceto	one:		
Asses	ssment	: May cause d	Irowsiness or dizziness.
	- repeated exposur		ed or repeated exposure.
Comp	ponents:		
Moxid	dectin:		
	t Organs ssment	<ul> <li>Central nervo</li> <li>Causes dam exposure.</li> </ul>	ous system age to organs through prolonged or repeated
2,6-D	i-tert-butyl-p-cresol:		
Asses	ssment		t health effects observed in animals at concentra- mg/kg bw or less.
Repe	ated dose toxicity		
Comp	oonents:		
N,N-C	)imethylacetamide:		
	EL	: Rat : 90 mg/m3 : 360 mg/m3 : inhalation (va : 24 Months	apour)
Flura	laner:		
Expos	EL cation Route sure time t Organs	: Dog : 1 mg/kg : Oral : 52 Weeks : Liver : No significan	it adverse effects were reported
	L cation Route sure time	: Juvenile dog : 56 - 280 mg/ : Oral : 24 Weeks : Diarrhoea	
Expos		: Rat : 400 mg/kg : Oral : 90 Days : Liver, thymus	s gland
Speci	es	: Rat	

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Exposure	Application Route Exposure time Target Organs		<ul> <li>500 mg/kg</li> <li>Dermal</li> <li>90 Days</li> <li>Liver</li> <li>No significant adverse effects were reported</li> </ul>					
Acetone:								
Species NOAEL LOAEL Applicatio Exposure		: Rat : 900 mg/kg : 1.700 mg/kg : Ingestion : 90 Days						
Species NOAEL Applicatio Exposure		: Rat : 45 mg/l : inhalation (vapou : 8 Weeks	ır)					
Moxidect	in:							
Species NOAEL LOAEL Applicatio Exposure Symptoms	time	: Mouse : 3,9 mg/kg : 15,4 mg/kg : Oral : 4 Weeks : Tremors						
Species NOAEL LOAEL Applicatio Exposure Target Or Symptoms	time gans	: Rat : 3,9 mg/kg : 7,9 mg/kg : Oral : 13 Weeks : Central nervous : : Tremors, Salivati						
Species NOAEL LOAEL Applicatio Exposure Target Or Symptoms	time gans	: Dog : 0,3 mg/kg : 0,9 mg/kg : Oral : 90 Days : Central nervous : : Tremors, Lachry	system mation, Salivation					
Species NOAEL Applicatio Exposure Target Or Symptome	time gans	: Dog : 1,15 mg/kg : Oral : 52 Weeks : Central nervous : : Tremors, Lachry						
2,6-Di-ter	t-butyl-p-cresol:							

Species

: Rat



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NOAE	L	: 25 mg/kg	
Applic	ation Route	: Ingestion	
Expos	ure time	: 22 Months	

### Aspiration toxicity

Not classified based on available information.

### Components:

### Fluralaner:

Not applicable

#### Acetone:

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:

Eluralanar

Fluralaner:		
Skin contact Eye contact	:	Remarks: May irritate skin.
Eye contact	:	Remarks: May cause eye irritation.
Moxidectin:		
Inhalation Skin contact Eye contact Ingestion	:	Remarks: No human information is available.
Skin contact	:	Remarks: No human information is available.
Eye contact	:	Remarks: No human information is available.
Ingestion	:	Remarks: No human information is available.

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

#### 12.1 Toxicity

Components:

### N,N-Dimethylacetamide:

Toxicity to fish

: LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l Exposure time: 96 h



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	ity to daphnia and other ic invertebrates	:	Exposure time: 48	agna (Water flea)): > 500 mg/l 3 h 67/548/EEC, Annex V, C.2.
Toxic plants	ity to algae/aquatic	:	EC50 (Desmodes Exposure time: 72	mus subspicatus (green algae)): > 500 mg/l 2 h
			EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): > 500 mg/l 2 h
Toxic	ity to microorganisms	:	EC10 : > 1.995 m Exposure time: 30	
Flura	laner:			
	ity to fish	:	Exposure time: 96 Method: OECD Te	
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic	:	0,08 mg/l Exposure time: 72 Method: OECD Te	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: >= 0,049 r Exposure time: 21 Species: Zebrafisl Method: OECD Te Remarks: No toxid	l đ h
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC: 0,0736 µg Exposure time: 21 Species: Daphnia Method: OECD Te	l d magna (Water flea)
M-Fac toxicit	ctor (Chronic aquatic ty)	:	1.000	
		-		ıranyl)methyl]omegahydroxy-:
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 100 2 h



ersion 1.0	Revision Date: 28.09.2024		0S Number: 7384-00026	Date of last issue: 06.07.2024 Date of first issue: 02.05.2016
			Method: OECD To Remarks: Based of	est Guideline 201 on data from similar materials
			mg/l Exposure time: 72 Method: OECD To	
N.N-D	iethyl-m-toluamide:			
	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 75 mg/l 3 h
Toxici <sup>;</sup> plants	ty to algae/aquatic	:	ErC50 (Selenastro Exposure time: 72 Method: OECD Te	
			NOEC (Selenastro Exposure time: 72 Method: OECD Te	
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 21	l d magna (Water flea)
Aceto	one:			
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 5.540 mg/l ን h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia p Exposure time: 48	ulex (Water flea)): 8.800 mg/l 3 h
Toxici <sup>:</sup> plants	ty to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 96	rchneriella subcapitata (green algae)): 7.000 Sh
Toxici	ty to microorganisms	:	EC50 : 61.150 mg Exposure time: 30 Method: ISO 8192	) min
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 21	l d magna (Water flea)
Moxic	lectin:			
Toxici	ty to fish	:	LC50 (Lepomis m	acrochirus (Bluegill sunfish)): 0,0006 mg/l

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rsion 0	Revision Date: 28.09.2024		95 Number: 7384-00026	Date of last issue: 06.07.2024 Date of first issue: 02.05.2016
			Exposure time: 96 Method: OECD T	
			Exposure time: 96	chus mykiss (rainbow trout)): 0,0002 mg/l 5 h est Guideline 203
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green algae)): 0,0 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
M-Fac icity)	ctor (Acute aquatic tox-	:	10.000	
M-Fac toxicit	ctor (Chronic aquatic y)	:	10.000	
2,6-Di	i-tert-butyl-p-cresol:			
Toxici	ty to fish	:	Exposure time: 96	o (zebra fish)): > 0,57 mg/l 5 h 67/548/EEC, Annex V, C.1.
Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	3 h
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T	
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
Toxici	ty to microorganisms	:	EC50 : > 10.000 r Exposure time: 3 Method: OECD T	h
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: 0,053 mg, Exposure time: 30 Species: Oryzias Method: OECD T	) d latipes (Japanese medaka)
icity)			Species: Oryzias	latipes (Japanese medaka)



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	ty to daphnia and other ic invertebrates (Chron- city)		NOEC: 0,316 mg. Exposure time: 2 Species: Daphnia	
M-Fac toxicit	ctor (Chronic aquatic y)	:	1	
12.2 Persis	stence and degradabil	lity		
Comp	oonents:			
N,N-D	imethylacetamide:			
Biode	gradability	:	Result: Not readil Biodegradation: Exposure time: 28 Remarks: The 10	70 %
Poly(d	oxy-1,2-ethanediyl), .a	lpha	a[(tetrahydro-2-fi	uranyl)methyl]omegahydroxy-:
Biode	gradability	:		y biodegradable. est Guideline 301F on data from similar materials
N,N-D	iethyl-m-toluamide:			
	gradability	:	Result: Readily bi Biodegradation: 8 Exposure time: 28 Method: OECD T	83,8 %
Aceto	one:			
Biode	gradability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28	91 %
2,6-Di	-tert-butyl-p-cresol:			
Biode	gradability	:	Result: Not readil Biodegradation: 4 Exposure time: 28 Method: OECD T	4,5 %
12.3 Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Flural	aner:			
Bioaco	cumulation	:		h factor (BCF): 79,4 est Guideline 305
	on coefficient: n- ol/water	:	log Pow: 4,5	



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Polv(	oxy-1,2-ethanediyl), .a	lph	a[(tetrahydro-2-f	uranyl)methyl]omegahydroxy-:
Partiti		-	log Pow: < 4 Remarks: Calcula	
N,N-E	Diethyl-m-toluamide:			
Partition coefficient: n- : octanol/water		:	log Pow: 2,02	
Aceto				
Partition coefficient: n- octanol/water		:	log Pow: -0,27	0,23
Moxie	dectin:			
	on coefficient: n- ol/water	:	log Pow: 4,7	
2,6-D	i-tert-butyl-p-cresol:			
Bioac	cumulation	:	Species: Cyprinu Bioconcentration	s carpio (Carp) factor (BCF): 330 - 1.800
	on coefficient: n- ol/water	:	log Pow: 5,1	
12.4 Mobi	lity in soil			
Com	oonents:			
Flura	laner:			
Distribution among environ- : mental compartments		:	log Koc: 4,1	
12.5 Resu	Its of PBT and vPvB a	isse	essment	
Produ	uct:			
Asses	ssment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
Com	oonents:			
Flura	laner:			
Asses		:	Substance is not	persistent, bioaccumulative, and toxic (PBT).
12.6 Endo	crine disrupting prop	ertie	es	
Produ	uct:			
	ssment	:	ered to have end REACH Article 5	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.



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### 12.7 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product	<ul> <li>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.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>Empty containers retain residue and can be dangerous.</li> <li>Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

	ADN	:	UN 1090	
	ADR	:	UN 1090	
	RID	:	UN 1090	
	IMDG	:	UN 1090	
	ΙΑΤΑ	:	UN 1090	
14.2	2 UN proper shipping name			
	ADN	:	ACETONE, SOLUTIC	N
	ADR	:	ACETONE, SOLUTIC	N
	RID	:	ACETONE, SOLUTIC	N
	IMDG	:	ACETONE, SOLUTIC (Fluralaner, Moxidecti	
	ΙΑΤΑ	:	Acetone, solution	
14.3	3 Transport hazard class(es)			
			Class	Subsidiary risks
	ADN	:	3	
	ADR	:	3	
	RID	:	3	
	IMDG	:	3	

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	ATA acking group	: 3	
P C H	<b>DN</b> acking group lassification Code azard Identification Number abels	: II : F1 : 33 : 3	
P C H La	<b>DR</b> acking group lassification Code azard Identification Number abels unnel restriction code	: II : F1 : 33 : 3 : (D/E)	
P C H	<b>ID</b> acking group lassification Code azard Identification Number abels	: II : F1 : 33 : 3	
P La	<b>/IDG</b> acking group abels mS Code	: II : 3 : F-E, S-D	
P ai P P	<b>ATA (Cargo)</b> acking instruction (cargo ircraft) acking instruction (LQ) acking group abels	: 364 : Y341 : II : Flammable Liquids	3
P ge P	ATA (Passenger) acking instruction (passen- er aircraft) acking instruction (LQ) acking group abels	: 353 : Y341 : II : Flammable Liquids	3
14.5 E	nvironmental hazards		
	<b>DN</b> nvironmentally hazardous	: yes	
	<b>DR</b> nvironmentally hazardous	: yes	
	<b>ID</b> nvironmentally hazardous	: yes	
	<b>IDG</b> larine pollutant	: yes	



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#### 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

	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,N- Dimethylacetamide
1	REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)		Number on list 72: N,N- Dimethylacetamide 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 use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	N,N-Dimethylacetamide
I	REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
	Regulation (EC) on substances that deplete the ozone aver	:	Not applicable
I	Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable
l I	Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
	Population (EU) 2010/1118 on the marketing and use of	ovel	

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors



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This product is regulated by Regulation (EU) 2019/1148: all suspi- Acetone (ANNEX II) cious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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

P5c	FLAMMABLE LIQUIDS	Quantity 1 5.000 t	Quantity 2 50.000 t
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.

#### The components of this product are reported in the following inventories:

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**

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

#### Full text of H-Statements

	Highly flammable liquid and vapour.
H301 :	Toxic if swallowed.
H302 :	Harmful if swallowed.
H312 :	Harmful in contact with skin.
H315 :	Causes skin irritation.
H319 :	Causes serious eye irritation.
H332 :	Harmful if inhaled.
H336 :	May cause drowsiness or dizziness.
H360D :	May damage the unborn child.
H361d :	Suspected of damaging the unborn child.
H372 :	Causes damage to organs through prolonged or repeated exposure.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.



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EUH	066	:	Repeated exposu	re may cause skin dryness or cracking.
Full t	ext of other abbreviat	ions		
Acute	e Tox.	:	Acute toxicity	
Aqua	tic Acute	:	Short-term (acute	) aquatic hazard
Aqua	tic Chronic	:	Long-term (chron	ic) aquatic hazard
Eye I	rrit.	:	Eye irritation	
Flam	. Liq.	:	Flammable liquid	3
Repr.		:	Reproductive toxi	city
Skin	Irrit.	:	Skin irritation	
STO		:		gan toxicity - repeated exposure
STO	Γ SE	:		gan toxicity - single exposure
2000	/39/EC	:	•	sion Directive 2000/39/EC establishing a first
				ccupational exposure limit values
2004	/37/EC	:		2004/37/EC on the protection of workers
				ated to exposure to carcinogens or mutagens
			at work	
	2011-12-06-1358	:		ional Exposure limits
	/39/EC / TWA	:	Limit Value - eigh	
	/39/EC / STEL	:	Short term expos	
	/37/EC / STEL	:	Short term expos	
	/37/EC / TWA	:	Long term exposu	
FOR- TWA	2011-12-06-1358 /	:	Long term exposi	ıre limit
FOR- STEL	2011-12-06-1358 / -	:	Short term expos	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; 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



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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	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

#### **Classification of the mixture: Classification procedure:** Flam. Lig. 2 H225 Based on product data or assessment Skin Irrit. 2 H315 Calculation method Eye Irrit. 2 H319 Calculation method Repr. 1B H360D Calculation method STOT RE 2 H373 Calculation method Aquatic Acute 1 H400 Calculation method Aquatic Chronic 1 H410 Calculation method

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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.

NO / EN