

Version 4.7	Revision Date: 27.08.2021	•••	DS Number: 00411-00018	Date of last issue: 26.04.2021 Date of first issue: 12.07.2016			
SECTIO	SECTION 1: Identification of the substance/mixture and of the company/undertaking						
1.1 Product identifier Trade name		:	Abamectin / Flua	zuron Formulation			
Use	1.2 Relevant identified uses of t Use of the Sub- stance/Mixture		substance or mixt Veterinary produc				
1.3 Detail	1.3 Details of the supplier of the safety data sheet						
Company		:	MSD 20 Spartan Road 1619 Spartan, S				
Telephone		:	+27119239300				
	E-mail address of person responsible for the SDS		EHSDATASTEW	ARD@msd.com			
1.4 Emer	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.
Acute toxicity, Category 4	H332: Harmful if inhaled.
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-	H336: May cause drowsiness or dizziness.
posure, Category 3	
Specific target organ toxicity - single ex-	H335: May cause respiratory irritation.
posure, Category 3	
Specific target organ toxicity - repeated	H373: May cause damage to organs through pro-
exposure, Category 2	longed or repeated exposure.
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.
l abal alamanta	

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



ersion 7	Revision Date: 27.08.2021	SDS Number: 800411-00018	Date of last issue: 26.04.2021 Date of first issue: 12.07.2016
Hazar	d pictograms		
Signal	l word	: Danger	• • •
Hazar	d statements	H315 Cause H317 May ca H319 Cause H332 Harmfu H335 May ca H336 May ca H360D May da H373 May ca repeated expo	able liquid and vapour. s skin irritation. ause an allergic skin reaction. s serious eye irritation. ul if inhaled. ause respiratory irritation. ause drowsiness or dizziness. amage the unborn child. ause damage to organs through prolonged or sure. oxic to aquatic life with long lasting effects.
Preca	utionary statements	· Prevention:	
		P210 Keep a flames and oth P273 Avoid	special instructions before use. way from heat, hot surfaces, sparks, open er ignition sources. No smoking. release to the environment. protective gloves/ protective clothing/ eye protec- iction.
		Response:	
		P308 + P313 attention. P391 Collect	IF exposed or concerned: Get medical advice/

Hazardous components which must be listed on the label:

Propan-2-ol N-Methyl-2-pyrrolidone 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate abamectin (combination of avermectin B1a and avermectin B1b) (ISO)

Additional Labelling

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.

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

	Chemical name	CAS-No.	Classification	Concentration
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		EC-No. Index-No. Registration number		(% w/w
Propa	n-2-ol	67-63-0 200-661-7 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 30 - <
N-Met	thyl-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 - <
Fluaz	uron	86811-58-7	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity): 1.000	>= 2,5 - <
	ectin (combination of avermec- a and avermectin B1b) (ISO)	71751-41-2 606-143-00-0	Acute Tox. 2; H300 Acute Tox. 1; H330 Acute Tox. 3; H311 Repr. 2; H361fd STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2
			M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000	
	bicyclo[4.1.0]hept-3-ylmethyl 7- cyclo[4.1.0]heptane-3- xylate	2386-87-0 219-207-4	Skin Sens. 1; H317	>= 1 - <
	-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	

For explanation of abbreviations see section 16.



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SECTION	I 4: First aid measu	ures	
4.1 Descri	ption of first aid me	asures	
Gene	ral advice	vice immedia	of accident or if you feel unwell, seek medical ad- ately. oms persist or in all cases of doubt seek medical
Protec	ction of first-aiders	and use the	bonders should pay attention to self-protection, recommended personal protective equipment tential for exposure exists (see section 8).
lf inha	aled	If not breathi	move to fresh air. ng, give artificial respiration. s difficult, give oxygen. attention.
In cas	e of skin contact	for at least 1 and shoes. Get medical Wash clothir	ontact, immediately flush skin with plenty of water 5 minutes while removing contaminated clothing attention. Ing before reuse. Iclean shoes before reuse.
In cas	e of eye contact	for at least 1	, remove contact lens, if worn.
lf swa	llowed	Get medical Rinse mouth	, DO NOT induce vomiting. attention. thoroughly with water. nything by mouth to an unconscious person.
4.2 Most i	mportant symptoms	and effects, both a	acute and delayed
Risks		Causes serio Harmful if inl May cause r May cause d May damage	n allergic skin reaction. ous eye irritation.
4.3 Indica t Treatr	-		n and special treatment needed omatically and supportively.



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SECTION	1 5: Firefighting meas	sur	es	
5.1 Exting	uishing media			
Suital	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsu media	itable extinguishing a	:	High volume wate	er jet
5.2 Specia	al hazards arising from	the	substance or mi	xture
Speci fightir	ific hazards during fire- ng	:	fire. Flash back possil Vapours may forr	d water stream as it may scatter and spread ble over considerable distance. m explosive mixtures with air. bustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides (Chlorine compou Fluorine compour	nds
5.3 Advice	e for firefighters			
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
Speci ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

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 cannot be contained.
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6.3 Metho	ds and material for co	ontainment and clean	ing up
Metho	ods for cleaning up	Soak up with ine Suppress (knock spray jet. For large spills, p ment to keep ma be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	ols should be used. ert absorbent material. (down) gases/vapours/mists with a water provide dyking or other appropriate contain- aterial from spreading. If dyked material can e recovered material in appropriate container. ing 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

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.
	Do not breathe 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 as- sessment
	Non-sparking tools should be used.
	Keep container tightly closed.
	Already sensitised individuals should consult their physician regarding working with respiratory irritants or sensitisers.
	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	Take precautionary measures against static discharges.
	Do not eat, drink or smoke when using this product.
	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
,,,	flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace.
	Wash contaminated clothing before re-use.
	The effective operation of a facility should include review of



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			appropriate dego	ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the tive controls.	
7.2 Conditi	ons for safe storage,	incl	uding any incom	patibilities	
Requirements for storage : areas and containers		:	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		:	Do not store with the following product types: Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which in contact with water, emit flammable gases Explosives Gases		

7.3 Specific 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				
Propan-2-ol	67-63-0	TWA OEL-RL	400 ppm 960 mg/m3	ZA OEL				
	Further inform	nation: Absorption th	rough the skin, Recommende	ed Limit				
		STEL OEL-RL	500 ppm 1.225 mg/m3	ZA OEL				
	Further inform	nation: Absorption th	rough the skin, Recommende	ed Limit				
N-Methyl-2-	872-50-4	TWA OEL-RL	100 ppm	ZA OEL				
pyrrolidone			400 mg/m3					
	Further information: Recommended Limit							
		TWA	10 ppm 40 mg/m3	2009/161/EU				
		STEL	20 ppm 80 mg/m3	2009/161/EU				
Fluazuron	86811-58-7	TWA	60 µg/m3 (OEB 3)	Internal				
		Wipe limit	600 µg/ 100cm2	Internal				
abamectin (combi- nation of avermec- tin B1a and aver- mectin B1b) (ISO)	71751-41-2	TWA	15 μg/m3 (OEB 3)	Internal				



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			Wipe limit	150 µg/100 cm²	Internal	
	2,6-Di-tert-butyl-p- cresol	128-37-0	TWA OEL-RL	10 mg/m3	ZA OEL	
		Further information: Recommended Limit				

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
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
	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
7- Oxabicy- clo[4.1.0]hept-3- ylmethyl 7- oxabicy- clo[4.1.0]heptane-3- carboxylate	Workers	Inhalation	Long-term systemic effects	0,18 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,18 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,05 mg/kg bw/day
Propan-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
2,6-Di-tert-butyl-p- cresol	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





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

Substance name	Environmental Compartment	Value
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
		weight (d.w.)
	Marine sediment	1,09 mg/kg dry
		weight (d.w.)
	Soil	0,07 mg/kg dry
		weight (d.w.)
7-Oxabicyclo[4.1.0]hept-3- ylmethyl 7-	Fresh water	0,024 mg/l
oxabicyclo[4.1.0]heptane-3- carboxylate		
	Marine water	0,0024 mg/l
	Intermittent use/release	0,24 mg/l
	Sewage treatment plant	19,5 mg/l
	Fresh water sediment	0,211 mg/kg
	Marine sediment	0,0211 mg/kg
	Soil	0,0282 mg/kg
Propan-2-ol	Fresh water	140,9 mg/l
•	Marine water	140,9 mg/l
	Intermittent use/release	140,9 mg/l
	Sewage treatment plant	2251 mg/l
	Fresh water sediment	552 mg/kg dry
		weight (d.w.)
	Marine sediment	552 mg/kg dry
		weight (d.w.)
	Soil	28 mg/kg dry
		weight (d.w.)
	Oral (Secondary Poisoning)	160 mg/kg food
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.



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and to vices) Minim	prevent migration of the	ne co	ompound to uncont	mpounds are required to control at source rolled areas (e.g., open-face containment de- g equipment.		
Perso	onal protective equipn	nent				
Eye p	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					
Ma	aterial	:	: Chemical-resistant gloves			
Re	emarks	: Consider double gloving. Take note that the product is mable, which may impact the selection of hand protect				
Skin a	and body protection	:	 Work uniform or laboratory coat. Additional body garments should be used based upon the tas being performed (e.g., sleevelets, apron, gauntlets, disposabl suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially 			
			contaminated clot	hing.		
Respi	ratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.			
Fil	ter type	:		lates and organic vapour type (A-P)		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid No data available No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	28 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available

SAFETY DATA SHEET



Abamectin / Fluazuron Formulation

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Vapour pressure Relative vapour density Relative density Density		 No data available No data available No data available No data available 	
Sol Par octa Aut	ubility(ies) Water solubility tition coefficient: n- anol/water o-ignition temperature composition temperature	 No data available Not applicable No data available No data available No data available 	
Viscosity Viscosity, kinematic Explosive properties Oxidizing properties		 No data available Not explosive The substance or mixture is not classified as oxidizing].
Flai Mol	er information mmability (liquids) lecular weight ticle size	 Not applicable No data available Not applicable 	

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. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
10.4 Conditions to avoid Conditions to avoid	:	Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
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10.6 Hazardous decomposition products

No hazardous decomposition products are known.





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SECTIO	N 11: Toxicological in	for	mation	
CLOTIC				
	rmation on toxicological			
	mation on likely routes of osure	:	Inhalation Skin contact Ingestion Eye contact	
	te toxicity nful if inhaled.			
Proc	duct:			
Acut	e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2.000 mg/kg on method
Acut	e inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
Acut	e dermal toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2.000 mg/kg on method
Com	nponents:			
Prop	oan-2-ol:			
Acut	e oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 25 Exposure time: 6 Test atmosphere:	h
Acut	e dermal toxicity	:	LD50 (Rabbit): > \$	5.000 mg/kg
N-M	ethyl-2-pyrrolidone:			
	te oral toxicity	:	LD50 (Rat): 4.150) mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): > 5,1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
Acut	e dermal toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Flua	zuron:			
	e oral toxicity	:	LD50 (Rat): > 5.0 Method: OECD To	
Acut	e inhalation toxicity	:	LC50 (Rat): > 6,0 Exposure time: 4 Test atmosphere: Method: OECD Te	h

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Acute	e dermal toxicity	:	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402					
	•			nd avermectin B1b) (ISO):				
Acute	e oral toxicity	:	LD50 (Rat): 24	0.0				
			LD50 (Mouse)					
			LDLo (Monkey Symptoms: Di	/): 24 mg/kg latation of the pupil				
Acute	e inhalation toxicity	:	LC50 (Rat): 0, Exposure time Test atmosphe	:4h				
Acute	e dermal toxicity	:	LD50 (Rat): 33	30 mg/kg				
			LD50 (Rabbit)	: 2.000 mg/kg				
7-Ox	abicyclo[4.1.0]hept-3	-ylme	thyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:				
Acute	e oral toxicity	:		ıle): 2.959 - 5.000 mg/kg D Test Guideline 401				
Acute	e inhalation toxicity	:		:4h				
Acute	e dermal toxicity	:		2.000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal				
2,6-D)i-tert-butyl-p-cresol:							
Acute	e oral toxicity	:	LD50 (Rat): > Method: OECI	6.000 mg/kg D Test Guideline 401				
Acute	e dermal toxicity	:		2.000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal				
-	corrosion/irritation							
Com	ponents:							
Prop Spec	a n-2-ol: ties	:	Rabbit					



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Resul	t	: No skin irritatio	pn
N-Me	thyl-2-pyrrolidone:		
Resul		: Skin irritation	
Fluaz	uron:		
Speci	es	: Rabbit	
Metho	bd	: OECD Test G	
Resul	t	: No skin irritatio	on
abam	ectin (combination	of avermectin B1a ar	nd avermectin B1b) (ISO):
Speci		: Rabbit	
Resul	t	: No skin irritatio	on
7-Oxa	bicyclo[4.1.0]hept-	3-ylmethyl 7-oxabicy	clo[4.1.0]heptane-3-carboxylate:
Speci		: Rabbit	
Metho		: OECD Test G	
Resul	t	: No skin irritatio	DN
2,6-Di	-tert-butyl-p-cresol	:	
Speci		: Rabbit	
Metho		: OECD Test G	
Resul		: No skin irritatio	
Rema	rks	: Based on data	from similar materials
Serio	us eye damage/eye	irritation	
Cause	es serious eye irritati	on.	
<u>Comp</u>	oonents:		
-	an-2-ol:		
Speci Resul		: Rabbit	a reversing within 21 days
Resul	L	. Initation to eye	es, reversing within 21 days
	thyl-2-pyrrolidone:	_	
Speci Resul		: Rabbit : Irritation to eye	es, reversing within 21 days
Fluaz	uron:		
Speci	es	: Rabbit	
Metho		: OECD Test G	uideline 405
Resul		: Mild eye irritat	
	ectin (combination	of avermectin B1a ar	nd avermectin B1b) (ISO):
abam			-
abam Speci	es	: Rabbit	

7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:



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Specie	25	: Rabbit
Metho		: OECD Test Guideline 405
Result		: No eye irritation
Result	L	
2,6-Di	-tert-butyl-p-cresol	:
Specie	es	: Rabbit
Metho		: OECD Test Guideline 405
Result		: No eye irritation
Rema	rks	: Based on data from similar materials
Respi	ratory or skin sens	itisation
Skin s	sensitisation	
May c	ause an allergic skin	reaction.
•	ratory sensitisation	
-	assified based on av conents:	
	in-2-ol:	
-		: Buehler Test
Test T	sure routes	: Skin contact
Specie		: Guinea pig
Metho		: OECD Test Guideline 406
Result		: negative
N-Met	hyl-2-pyrrolidone:	
Test T		: Local lymph node assay (LLNA)
	sure routes	: Skin contact
Specie		: Mouse
Metho		: OECD Test Guideline 429
Result	t	: negative
Rema	rks	: Based on data from similar materials
Fluaz	uron:	
Expos	sure routes	: Skin contact
Specie	es	: Guinea pig
Result		: negative
abam	ectin (combination	of avermectin B1a and avermectin B1b) (ISO):
Test T	уре	: Maximisation Test
Expos	sure routes	: Skin contact
Result	t	: Not a skin sensitizer.
7-Oxa	bicyclo[4.1.0]hept-	3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:
Test T	уре	: Maximisation Test
Expos	sure routes	: Skin contact
Specie		: Guinea pig
Result	•	: positive



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Asse	ssment	: Probability or	: Probability or evidence of skin sensitisation in humans				
Test	sure routes ies		t insult patch test (HRIPT)				
	n cell mutagenicity lassified based on av	ailable information.					
Com	ponents:						
-	an-2-ol: otoxicity in vitro	: Test Type: Ba Result: negati	acterial reverse mutation assay (AMES) ive				
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ive				
Geno	otoxicity in vivo	cytogenetic as Species: Mou	se oute: Intraperitoneal injection				
N-Me	ethyl-2-pyrrolidone:						
Geno	otoxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ive				
			vitro mammalian cell gene mutation test D Test Guideline 476 ive				
			NA damage and repair, unscheduled DNA syn- malian cells (in vitro) ive				
Geno	otoxicity in vivo	cytogenetic as Species: Mou Application Re	se oute: Ingestion D Test Guideline 474				
		cytogenetic te Species: Ham Application Re	oute: Ingestion D Test Guideline 475				



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Fluaz	uron:				
Geno	Genotoxicity in vitro		: Test Type: Bacterial reverse mutation assay (AME Result: negative		
			Test Type: DNA F Result: negative	Repair	
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test	
Geno	toxicity in vivo	:	Test Type: Cytog Species: Hamste Result: equivocal	r	
abam	nectin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):	
	toxicity in vitro	:		rial reverse mutation assay (AMES)	
				o mammalian cell gene mutation test nese hamster lung cells	
			Test Type: Alkalir Result: negative	ne elution assay	
Geno	toxicity in vivo	:	cytogenetic test, Species: Mouse	enicity (in vivo mammalian bone-marrow chromosomal analysis) e: Intraperitoneal injection	
			-		
	abicyclo[4.1.0]hept-3-y toxicity in vitro	'Ime		[4.1.0]heptane-3-carboxylate:	
Geno		•	Result: positive	manimalian cell gene mutation test	
Geno	toxicity in vivo	:	mammalian liver Species: Rat Application Route		
			Test Type: Micror Species: Mouse Application Route Result: negative	nucleus test e: Intraperitoneal injection	
Germ sessr	cell mutagenicity- As- nent	:	Weight of evidend cell mutagen.	ce does not support classification as a germ	
2.6-D	i-tert-butyl-p-cresol:				
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)	



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		Test Type: I Result: nega	n vitro mammalian cell gene mutation test ative
		Test Type: 0 Result: nega	Chromosome aberration test in vitro ative
Gen	otoxicity in vivo	cytogenetic Species: Ra	Route: Ingestion
	c inogenicity classified based on avail	able information.	
<u>Com</u>	ponents:		
Prop	oan-2-ol:		
	lication Route osure time nod	: Rat : inhalation (v : 104 weeks : OECD Test : negative	apour) Guideline 451
N-M	ethyl-2-pyrrolidone:		
Spe	cies	: Rat	
	lication Route	: Ingestion : 2 Years	
Res		: negative	
Spe	cies	: Rat	
Appl	ication Route	: inhalation (v	apour)
Expo	osure time ult	: 2 Years : negative	
Flue	zuron:		
Spe		: Rat	
Appl	ication Route	: Ingestion	
	osure time	: 2 Years	
Meth Res		: OECD Test : negative	Guideline 453
Spe	cies	: Mouse	
Appl	ication Route	: Ingestion	
Expo Res	osure time ult	: 2 Years : negative	
ahai	mectin (combination of	avermectin R1a	and avermectin B1b) (ISO):
Spe	-	: Rat	
	lication Route	: Oral	
	osure time	: 105 weeks	



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Res	sult	: negative	
App	cies lication Route osure time sult	: Mouse : Oral : 93 weeks : negative	3
2,6-	Di-tert-butyl-p-cresol:		
App	cies lication Route osure time sult	: Rat : Ingestion : 22 Month : negative	
•	productive toxicity / damage the unborn chil	d.	
<u>Cor</u>	nponents:		
	pan-2-ol:		
Effe	cts on fertility	Species:	on Route: Ingestion
Effe mer	ects on foetal develop- nt	Species:	on Route: Ingestion
N-M	lethyl-2-pyrrolidone:		
	ects on fertility	Species: Application	on Route: Ingestion OECD Test Guideline 416
Effe mer	ects on foetal develop- nt	Species: Application	on Route: Ingestion OECD Test Guideline 414
		Species:	on Route: inhalation (vapour)
		Species:	on Route: Ingestion
Rep	productive toxicity - As-	: Clear evi	dence of adverse effects on development, based on



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sessr	nent	animal experi	animal experiments.				
	zuron: ts on fertility	Species: Rat	vo-generation reproduction toxicity study oute: Ingestion ve				
Effec ment	ts on foetal develop-	Species: Rat	nbryo-foetal development oute: Ingestion ve				
		Species: Rab Application Re	oute: Ingestion D Test Guideline 414				
aban	nectin (combination of	avermectin B1a a	nd avermectin B1b) (ISO):				
Effec	ts on fertility	: Test Type: Fe Species: Rat, Application Re Result: Effects	male oute: Oral				
		Species: Rat Application Re	nic Development: NOAEL: 0,12 mg/kg body				
Effec ment	ts on foetal develop-	Species: Mou Application Re General Toxic Developmenta Result: Cleft p	oute: Oral sity Maternal: NOAEL: 0,05 mg/kg body weight al Toxicity: NOAEL: 0,2 mg/kg body weight				
		Species: Rab Application Re Developmenta Result: Cleft p survival					
		Test Type: De Species: Rat Application Ro Developments Result: Terato	oute: Oral al Toxicity: LOAEL: 1,6 mg/kg body weight				



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Reproductive toxicity - As- sessment		:	: Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.				
7-0xa	abicyclo[4.1.0]hept-3-	ylme	thyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:			
Effect ment	ts on foetal develop-	:	Species: Rat Application Ro	Test Guideline 414			
2,6-D	i-tert-butyl-p-cresol:						
Effect	ts on fertility	:	Test Type: Two Species: Rat Application Ro Result: negativ				
Effect ment	ts on foetal develop-	:	Test Type: Em Species: Rat Application Ro Result: negativ				
CT OT							
May o May o	Γ - single exposure cause respiratory irritati cause drowsiness or dia		SS.				
May o May o <u>Com</u> j	cause respiratory irritati cause drowsiness or dia ponents:		SS.				
May o May o <u>Com</u> j Propa	cause respiratory irritati cause drowsiness or dia			wsiness or dizziness.			
May o May o <u>Com</u> Propa Asses	cause respiratory irritati cause drowsiness or dia ponents: an-2-ol: ssment	zzine		wsiness or dizziness.			
May of May of Comj Propa Asses	cause respiratory irritati cause drowsiness or diz ponents: an-2-ol:	zzine	May cause dro	wsiness or dizziness. piratory irritation.			
May of May of Comp Asses N-Me Asses STOT	cause respiratory irritati cause drowsiness or dia ponents: an-2-ol: ssment ethyl-2-pyrrolidone:	zzine	May cause dro May cause res	piratory irritation.			
May of May of Comp Asses N-Me Asses STOT May of	cause respiratory irritati cause drowsiness or dia ponents: an-2-ol: ssment ethyl-2-pyrrolidone: ssment Γ - repeated exposure	zzine	May cause dro May cause res	piratory irritation.			
May of May of Comj Propa Asses N-Me Asses STOT May of Comj	cause respiratory irritati cause drowsiness or dia ponents: an-2-ol: ssment ethyl-2-pyrrolidone: ssment F - repeated exposure cause damage to organ ponents:	zzine:	May cause dro May cause res	piratory irritation.			
May of May of Comp Asses N-Me Asses STOT May of Comp abarr Expos Targe	cause respiratory irritati cause drowsiness or dia ponents: an-2-ol: ssment ethyl-2-pyrrolidone: ssment F - repeated exposure cause damage to organ ponents:	zzine:	May cause dro May cause res ough prolonged rmectin B1a an Ingestion Central nervou	piratory irritation. or repeated exposure. d avermectin B1b) (ISO):			
May of May of Asses Propa Asses N-Me Asses STOT May of Comj abam Expos Targe Asses	cause respiratory irritati cause drowsiness or dia ponents: an-2-ol: ssment ethyl-2-pyrrolidone: ssment r - repeated exposure cause damage to organ ponents: nectin (combination or sure routes et Organs	zzine:	May cause dro May cause res ough prolonged rmectin B1a an Ingestion Central nervou Causes damag	piratory irritation. or repeated exposure. d avermectin B1b) (ISO): s system			



sion	Revision Date: 27.08.2021	SDS Number: 800411-00018	Date of last issue: 26.04.2021 Date of first issue: 12.07.2016
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Propa	an-2-ol:		
Speci	es	: Rat	
NOAE		: 12,5 mg/l	
	cation Route	: inhalation (vapour)
Expos	sure time	: 104 Weeks	
N-Me	thyl-2-pyrrolidone:		
Speci	es	: Rat, male	
NOAE		: 169 mg/kg	
LOAE		: 433 mg/kg	
	ation Route	: Ingestion	
	sure time	: 90 Days	1
Metho	Da	: OECD Test Guide	line 408
Speci		: Rat	
NOAE		: 0,5 mg/l	
LOAE		: 1 mg/l	
	cation Route sure time	: inhalation (dust/m	ist/tume)
Metho		: 96 Days : OECD Test Guide	line 413
Speci		: Rabbit	
NOAE LOAE		: 826 mg/kg : 1.653 mg/kg	
	ation Route	: Skin contact	
	sure time	: 20 Days	
Fluaz	uron:		
Speci		: Rat	
LOAE		: 240 mg/kg	
	ation Route	: Ingestion	
	sure time	: 13 Weeks	
Targe	t Organs	: Liver, Thyroid, Pite	uitary gland
Speci		: Rat	
NOAE		: 10 mg/kg	
LOAE		: 100 mg/kg : Skin contact	
	cation Route	: 3 Weeks	
		. SWEEKS	
Speci		: Dog	
		: 7,5 mg/kg	
LOAE		: 110 mg/kg : Ingestion	
	cation Route sure time	: 52 Weeks	
	t Organs	: Liver	

Species

: Rat



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Expos	ation Route ure time Organs	: 1,5 mg/kg : Oral : 24 Months : Central nervou : Tremors, ataxia	
Expos	L ation Route ure time Organs	: Mouse : 4,0 mg/kg : Oral : 24 Months : Central nervou : Tremors, ataxia	
Expos	L - ation Route ure time Organs oms	 Dog 0,25 mg/kg 0,5 mg/kg Oral 53 Weeks Central nervou Tremors, weigl mortality obser 	nt loss
Expos		: Monkey : 1,0 mg/kg : Oral : 14 Weeks : Central nervou	s system
Specie NOAE Applica		: Rat : 25 mg/kg : Ingestion : 22 Months	
Aspira	ation toxicity assified based on avai		
-	ience with human ex	posure	
	onents:		
N-Met Skin co	hyl-2-pyrrolidone: ontact	: Symptoms: Sk	in irritation
abame	ectin (combination o	f avermectin B1a an	d avermectin B1b) (ISO):
Ingesti	•	: Symptoms: Ma	ay cause, Tremors, Diarrhoea, central nervous , Salivation, tearing



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SECTION	N 12: Ecological infor	ma	tion	
12.1 Toxi	citv			
	ponents:			
Prop	an-2-ol:			
-	ity to fish	:	LC50 (Pimephale Exposure time: 90	es promelas (fathead minnow)): 9.640 mg/l 6 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 24	nagna (Water flea)): > 10.000 mg/l 4 h
Toxic	ity to microorganisms	:	EC50 (Pseudomo Exposure time: 10	onas putida): > 1.050 mg/l 6 h
N-Me	thyl-2-pyrrolidone:			
Toxic	tity to fish	:	LC50 (Oncorhyno Exposure time: 90	chus mykiss (rainbow trout)): > 500 mg/l 6 h
	ity to daphnia and other tic invertebrates	•	EC50 (Daphnia m Exposure time: 24 Method: DIN 384	
Toxic plants	tity to algae/aquatic s	:	ErC50 (Desmode Exposure time: 72	esmus subspicatus (green algae)): 600,5 mg 2 h
			EC10 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 92,6 mg/l 2 h
Toxic	ity to microorganisms	:	EC50 : > 600 mg/ Exposure time: 30 Method: ISO 819	0 min
aqua	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC: 12,5 mg/l Exposure time: 2 Species: Daphnia Method: OECD T	1 d a magna (Water flea)
Fluaz	zuron:			
Toxic	tity to fish	:	LC50 (Cyprinus o Exposure time: 90	arpio (Carp)): > 9,1 mg/l 6 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia s Exposure time: 4	p. (water flea)): 0,0006 mg/l 8 h
Toxic plants	ity to algae/aquatic s	:	NOEC (Raphidoo 27,9 mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 2 h
M-Fa icity)	ctor (Acute aquatic tox-	:	1.000	



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M-Fac toxicity	tor (Chronic aquatic	:	1.000	
abam	ectin (combination of a	ave	rmectin B1a and a	avermectin B1b) (ISO):
Toxicity to fish		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 3,2 μg/l δ h
			LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 9,6 μg/l δ h
			LC50 (Ictalurus pu Exposure time: 96	unctatus (channel catfish)): 24 µg/l S h
			LC50 (Cyprinus c Exposure time: 96	arpio (Carp)): 42 μg/l δ h
			LC50 (Cyprinodor Exposure time: 96	n variegatus (sheepshead minnow)): 15 μg/l δ h
	ty to daphnia and other c invertebrates	:	EC50 (Americamy Exposure time: 96	
			EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0,34 μg/l 3 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 100 2 h
M-Fac icity)	tor (Acute aquatic tox-	:	10.000	
Toxici	ty to microorganisms	:	EC50 : > 1.000 m Exposure time: 3 Test Type: Respir	ĥ
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: 0,52 µg/l Exposure time: 32 Species: Pimepha	2 d ales promelas (fathead minnow)
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC: 0,03 µg/l Exposure time: 21 Species: Daphnia	l d magna (Water flea)
			NOEC: 0,0035 µg Exposure time: 28 Species: Mysidop	
M-Fac toxicity	tor (Chronic aquatic	:	10.000	
7-Oxa	bicyclo[4.1.0]hept-3-yl	me	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
	ty to fish	:		hus mykiss (rainbow trout)): 24 mg/l



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		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity to algae/aquatic plants		:	ErC50 (Selenastru Exposure time: 72 Method: OECD Te	
				NOEC (Selenastru Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EC10 (Natural mic Exposure time: 3 I Method: OECD Te	
	2 6-Di-f	ert-butyl-p-cresol:			
	Toxicity		:	Exposure time: 96	(zebra fish)): > 0,57 mg/l h 67/548/EEC, Annex V, C.1.
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	M-Facto icity)	or (Acute aquatic tox-	:	1	
	Toxicity	to microorganisms	:	EC50 : > 10.000 n Exposure time: 3 l Method: OECD Te	ĩ
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0,053 mg/ Exposure time: 30 Species: Oryzias I Method: OECD Te	d atipes (Japanese medaka)
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0,316 mg/ Exposure time: 21 Species: Daphnia	
	M-Facto toxicity)	or (Chronic aquatic	:	1	



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2.2 Pers	istence and degradal	bility	
Com	ponents:		
-	an-2-ol: egradability	: Result: rapio	dly degradable
BOD/	(COD	: BOD: 1.19 (COD: 2.23 BOD/COD:	
N-Me	thyl-2-pyrrolidone:		
	egradability	Biodegrada Exposure tir	
abam	nectin (combination o	of avermectin B1a	and avermectin B1b) (ISO):
Stabi	lity in water	: Hydrolysis:	50 %(< 12 h)
7-0x	abicvclo[4.1.0]hept-3	-vlmethvl 7-oxabi	cyclo[4.1.0]heptane-3-carboxylate:
	egradability	: Biodegrada Exposure tir	tion: 71 %
Stabi	lity in water	: Degradatior	n half life (DT50): 2 d
	i-tert-butyl-p-cresol: egradability	Biodegrada Exposure tir	
2.3 Bioa	ccumulative potentia	I	
Com	ponents:		
Partit	an-2-ol: ion coefficient: n- iol/water	: log Pow: 0,0	05
Partit	thyl-2-pyrrolidone: ion coefficient: n- ol/water	: log Pow: -0, Method: OE	46 CD Test Guideline 107
Partit	zuron: ion coefficient: n- iol/water	: log Pow: 5,	1
	nectin (combination c		and avermectin B1b) (ISO): ration factor (BCF): 52



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	ion coefficient: n- ol/water	: log Pow: 4	
7-Oxa	abicyclo[4.1.0]hept-3-y	Imethyl 7-oxat	icyclo[4.1.0]heptane-3-carboxylate:
	ion coefficient: n- ol/water	: log Pow: 1	,34
2,6-D	i-tert-butyl-p-cresol:		
Bioac	cumulation		Cyprinus carpio (Carp) tration factor (BCF): 330 - 1.800
	ion coefficient: n- ol/water	: log Pow: 5	,1
12.4 Mobi	lity in soil		
Com	ponents:		
abam	nectin (combination of	avermectin B1	a and avermectin B1b) (ISO):
Distril		: log Koc: >	
12.5 Resu	llts of PBT and vPvB a	ssessment	
Prod	uct:		
	ssment	to be eithe	ance/mixture contains no components considered r persistent, bioaccumulative and toxic (PBT), or stent and very bioaccumulative (vPvB) at levels of gher.
12.6 Othe	r adverse effects		
Prod	uct:		
	crine disrupting poten-	ered to ha REACH A (EU) 2017	ance/mixture does not contain components consid ve endocrine disrupting properties according to ticle 57(f) or Commission Delegated regulation /2100 or Commission Regulation (EU) 2018/605 a 1% or higher.
SECTION	13: Disposal consid	derations	
13.1 Wast	e treatment methods		
Produ		: Dispose o	in accordance with local regulations.
	aminated packaging	According are not pro Waste coo discussion Empty cor dling site f Empty cor Do not pro pose such	to the European Waste Catalogue, Waste Codes oduct specific, but application specific. les should be assigned by the user, preferably in with the waste disposal authorities. tainers should be taken to an approved waste har or recycling or disposal. tainers retain residue and can be dangerous. ssurize, cut, weld, braze, solder, drill, grind, or ex- containers to heat, flame, sparks, or other sources They may explode and cause injury and/or death.



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SECTION	14: Transport infor	matio	n	
14.1 UN n	umber			
ADN		: U	N 1993	
ADR		: U	N 1993	
RID		: U	IN 1993	
IMDO	ì	: U	N 1993	
ΙΑΤΑ		: U	N 1993	
14.2 UN p	roper shipping name			
ADN			LAMMABLE LI Propan-2-ol)	QUID, N.O.S.
ADR			LAMMABLE LI Propan-2-ol)	QUID, N.O.S.
RID			LAMMABLE LI Propan-2-ol)	QUID, N.O.S.
IMDO	3	(F		QUID, N.O.S. lazuron, abamectin (combination of avermec- mectin B1b) (ISO))
ΙΑΤΑ			lammable liquio Propan-2-ol)	l, n.o.s.
14.3 Tran	sport hazard class(es)			
ADN		: 3		
ADR		: 3		
RID		: 3		
IMDO	ì	: 3		
ΙΑΤΑ		: 3		
14.4 Pack	ing group			
Class	ng group ification Code rd Identification Number s		1 0	
Class Haza Labe Tunn RID	ng group ification Code rd Identification Number s el restriction code ng group	: 3	1 0 D/E)	
Class	ification Code rd Identification Number	: F	1	



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La	abels		:	3	
Pa La	MDG Packing abels EmS C	g group ode	:	III 3 F-E, <u>S-E</u>	
Pa ai Pa Pa	acking ircraft acking	Cargo) g instruction (cargo) g instruction (LQ) g group	:	366 Y344 III Flammable Liquid	ds
Pa ge Pa Pa	acking er airc acking	Passenger) g instruction (passen- g instruction (LQ) g group	:	355 Y344 III Flammable Liquid	ds
14.5 E	Inviro	nmental hazards			
Ei A	DR	nmentally hazardous	:	yes yes	
R	RID	mentally hazardous	:	yes	
	MDG 1arine	pollutant	:	yes	
	•	Il precautions for use nsport classification(s		ovided herein are fo	or 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 var					

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

SECTION 15: Regulatory information

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

The components of this product are reported in the	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.



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ECTION	16: Other inform	ation	
Other	⁻ information		nanges have been made to the previous versio I in the body of this document by two vertical
Full t	ext of H-Statements		
H225		: Highly flammal	ble liquid and vapour.
H300		: Fatal if swallov	
H311		: Toxic in contac	ct with skin.
H315		: Causes skin ir	ritation.
H317		: May cause an	allergic skin reaction.
H319		: Causes seriou	
H330		: Fatal if inhaled	
H335			piratory irritation.
H336			wsiness or dizziness.
H360			he unborn child.
H361	TO	•	damaging fertility. Suspected of damaging the
L1070		unborn child.	to argona through prolonged or repeated
H372		exposure if sw	ge to organs through prolonged or repeated
H400		: Very toxic to a	
H410			quatic life with long lasting effects.
	ext of other abbrevi	-	
Acute		: Acute toxicity	
	tic Acute		ute) aquatic hazard
	tic Chronic		ronic) aquatic hazard
Eye li		: Eye irritation	
Flam.		: Flammable liqu	uids
Repr.	•	: Reproductive t	
Skin I		: Skin irritation	
Skin S	Sens.	: Skin sensitisat	ion
STOT	Γ RE		organ toxicity - repeated exposure
STOT	Γ SE		organ toxicity - single exposure
2009/	/161/EU		MISSION DIRECTIVE 2009/161/EU establishir
			dicative occupational exposure limit values in
		•	n of Council Directive 98/24/EC and amending
			irective 2000/39/EC
ZA O	EL		lazardous Chemical Substances Regulations,
0000		•	Exposure Limits
	/161/EU / TWA	: Limit Value - e	
	/161/EU / STEL EL / TWA OEL-RL	: Short term exp	upational exposure limits - recommended limit
	EL / STEL OEL-RL		upational exposure limits - recommended limit
Wate Good	rways; ADR - Europ s by Road; AIIC - Au	ean Agreement conce stralian Inventory of Inc	national Carriage of Dangerous Goods by Inla erning the International Carriage of Dangero dustrial Chemicals; ASTM - American Society

Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concent



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tration associated with x% growth rate response; GHS - Globally Harmonized System; GLP -Good Laboratory Practice: IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; 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 mixture:

Flam. Liq. 3	H226
Acute Tox. 4	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 1B	H360D
STOT SE 3	H336
STOT SE 3	H335
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Based on product data or assessment
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information 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



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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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