

Aspiration hazard, Category 1

gory 1

egory 1

Short-term (acute) aquatic hazard, Cate-

Long-term (chronic) aquatic hazard, Cat-

Version 3.0	Revision Date: 06.04.2024	SDS Numb 11182725-		Date of last issue: 27.11.2023 Date of first issue: 21.03.2023
SECTION	N 1: Identification of	the substa	nce/mix	ture and of the company/undertaking
1.1 Produ	ict identifier			
Trade	e name	: Amitra:	z (12.5%)	EC Formulation
Othe	r means of identification	: COOP	ERS AMI	TIK EC CATTLE AND PIG SPRAY (45044)
1.2 Relev	ant identified uses of t	he substan	ce or mix	ture and uses advised against
	of the Sub- ce/Mixture	: Veterin	ary produ	ct
Reco on us	mmended restrictions	: Not ap	plicable	
1.3 Detail	s of the supplier of the	safety data	a sheet	
Com	pany		irtan Road Spartan, S	d South Africa
Telep	bhone	: +27119	9239300	
	il address of person onsible for the SDS	: EHSDA	ATASTEW	/ARD@msd.com
	<b>gency telephone numb</b> 08-423-6000	er		
SECTION	N 2: Hazards identific	ation		
2.1 Class	ification of the substan	ice or mixtu	ire	
Class	sification (REGULATIO	N (EC) No 1	272/2008	
Serio Skin Germ Spec posu	e toxicity, Category 4 bus eye damage, Catego sensitisation, Category 1 n cell mutagenicity, Categoric ific target organ toxicity - re, Category 3 ific target organ toxicity -	gory 2 - single ex-	H318 H317 H341 H336	<ul> <li>Harmful if swallowed.</li> <li>Causes serious eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Suspected of causing genetic defects.</li> <li>May cause drowsiness or dizziness.</li> </ul>
	sure, Category 2			d or repeated exposure.

H304: May be fatal if swallowed and enters airways.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.



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.2 Label e	lements			
	ing (REGULATION (	EC) No 1272	/2008)	
Hazaro	d pictograms			
Signal	word	: Danger		
Hazaro	d statements	: H302 H304 H317 H318 H336 H341 H373 repeate H410	May be fa May cause Causes se May cause Suspected May cause de exposure	swallowed. al if swallowed and enters airways. an allergic skin reaction. rious eye damage. drowsiness or dizziness. of causing genetic defects. damage to organs through prolonged or b. to aquatic life with long lasting effects.
Supple Statem	emental Hazard nents	: EUH06 crackin		peated exposure may cause skin dryness
Precau	utionary statements		Avoid rele	ase to the environment. ective gloves/ protective clothing/ eye prote n.
		P305 + with wa sent an	P310 IF R/ doctor. P351 + P3 ter for seve d easy to c N CENTEF	duce vomiting.

Hydrocarbons, C10, aromatics, <1% naphthalene Nonylphenol, ethoxylated amitraz (ISO) 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate

#### 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.

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

#### 3.2 Mixtures

Components



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Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentratio (% w/w)
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 50 - < 70
Nonylphenol, ethoxylated	9016-45-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	>= 20 - < 25
amitraz (ISO)	33089-61-1 251-375-4 612-086-00-2	Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373 (Liver, Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 10 - < 20
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3- carboxylate	2386-87-0 219-207-4	Skin Sens. 1; H317 Muta. 2; H341 STOT RE 2; H373 (nasal cavity) Aquatic Chronic 3; H412	>= 2,5 - < 10

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



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		when the pote	ntial for exposure exists (see section 8).
lf inha	led	: If inhaled, rem Get medical a	ove to fresh air. Itention.
In cas	e of skin contact	Remove conta Get medical a Wash clothing	
In cas	e of eye contact	for at least 15 If easy to do, r	tact, immediately flush eyes with plenty of water minutes. emove contact lens, if worn. ttention immediately.
lf swa	llowed	If vomiting occ Call a physicia Rinse mouth t	DO NOT induce vomiting. surs have person lean forward. In or poison control centre immediately. horoughly with water. ything by mouth to an unconscious person.
4.2 Most i	mportant symptoms	and effects, both ac	sute and delayed
Risks		: Harmful if swa May be fatal if May cause an Causes seriou May cause dro Suspected of May cause da exposure.	-
12 Indian	tion of any immodia	to modical attention	and special treatment needed
4.3 Indicat Treatr	•		natically and supportively.
SECTION	5: Firefighting m	easures	

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : Exposure to combustion products may be a hazard to health. fighting



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Haza ucts	ardous combustion prod-	:	Carbon oxides	
5.3 Advice for firefighters Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus.
	ific extinguishing meth-	:	Use extinguishing cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

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

<b>6.1 Personal precautions, protectiv</b> Personal precautions :	<b>ve equipment and emergency procedures</b> 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.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment 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 absor- bent.
		Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding 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

Technical measures

: See Engineering measures under EXPOSURE

### SAFETY DATA SHEET



## Amitraz (12.5%) EC Formulation

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A	dvice	on safe handling	:	If sufficient ventilation. Do not get on skii Do not breathe m Do not swallow. Do not get in eye Wash skin thorou Handle in accord practice, based of sessment Keep container tii Do not eat, drink Take care to prevenvironment. If exposure to chefushing systems place. When usin work clothing sho Wash contamina The effective ope engineering contra	hist or vapours. s. Ighly after handling. ance with good industrial hygiene and safety in the results of the workplace exposure as- ghtly closed. or smoke when using this product. vent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working ing do not eat, drink or smoke. Contaminated build not be allowed out of the workplace. ted clothing before re-use. eration of a facility should include review of rols, proper personal protective equipment, wining and decontamination procedures, e monitoring, medical surveillance and the
R	7.2 Conditions for safe storage, i Requirements for storage areas and containers		inc :	Keep in properly	patibilities labelled containers. Store locked up. Keep ep in a cool, well-ventilated place. Store in
A	dvice	on common storage	:	accordance with	the particular national regulations. the following product types:
7.3 Sp	pecific	end use(s)			

Specific use(s)	: No data available
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#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

	Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ľ	amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
			Wipe limit	1250 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
Hydrocarbons, C10,	Workers	Inhalation	Long-term systemic	151 mg/m3



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	aromatics, <1% naph- thalene			effects	
		Workers	Skin contact	Long-term systemic effects	12,5 mg/kg bw/day
_		Consumers	Inhalation	Long-term systemic effects	32 mg/m3
		Consumers	Skin contact	Long-term systemic effects	7,5 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	7,5 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

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

Substance name	Environmental Compartment	Value
7-Oxabicyclo[4.1.0]hept-3- ylmethyl 7- oxabicyclo[4.1.0]heptane-3- carboxylate	Fresh water	0,024 mg/l
	Freshwater - intermittent	0,24 mg/l
	Marine water	0,0024 mg/l
	Sewage treatment plant	19,5 mg/l
	Fresh water sediment	0,211 mg/kg dry weight (d.w.)
	Marine sediment	0,0211 mg/kg dry weight (d.w.)
	Soil	0,0282 mg/kg dry weight (d.w.)

#### 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.

#### 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



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Hand	d protection	potential for aerosols.	direct contact to the face with dusts, mists, or
M	aterial	: Chemical-res	istant gloves
	emarks and body protection	Additional bo being perforn suits) to avoid	or laboratory coat. dy garments should be used based upon the task ned (e.g., sleevelets, apron, gauntlets, disposable d exposed skin surfaces. ate degowning techniques to remove potentially
Resp	iratory protection	sure assessn ommended g	ocal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- uidelines, use respiratory protection.
Fi	Iter type	: Combined pa	rticulates 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 clear light yellow characteristic 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	:	No data available
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
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	0,952 (15 °C)
Density	:	No data available
Solubility(ies)		



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	Partitior octanol, Auto-igi	er solubility n coefficient: n- /water nition temperature position temperature	:	No data available Not applicable No data available No data available	9
		ty osity, kinematic ve properties	:	No data available Not explosive	9
(	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
F	Flamma	formation ability (liquids)	:	No data available	e
		lar weight	:	No data available	9
F	Particle	size	:	Not applicable	

## SECTION 10: Stability and reactivity

10.1 Reactivity		
Not classified as a reactivity	y hazard.	
10.2 Chemical stability		
Stable under normal condition	ions.	
10.3 Possibility of hazardous r	reactions	
Hazardous reactions	: Can react with strong oxidizing agents.	
10.4 Conditions to avoid		
Conditions to avoid	: None known.	
10.5 Incompatible materials		
Materials to avoid	: Oxidizing agents	
10.6 Hazardous decomposition	n products	
No hazardous decompositio	on products are known.	
SECTION 11: Toxicological	information	
11.1 Information on toxicologie		
Information on likely routes	ot · Inhalation	

Inhalation
Skin contact
Ingestion
Eye contact



sion	Revision Date: 06.04.2024			ate of last issue: 27.11.2023 Pate of first issue: 21.03.2023
	e toxicity			
Harm	ful if swallowed.			
Produ				
Acute	oral toxicity	:	Acute toxicity estima Method: Calculation	
<u>Comp</u>	oonents:			
Hydro	ocarbons, C10, aron	natics,	<1% naphthalene:	
Acute	oral toxicity	:	LD50 (Rat): > 5.000 Method: OECD Test	
				data from similar materials
Acute	inhalation toxicity	:	LC50 (Rat): > 4,778	mg/l
			Exposure time: 4 h Test atmosphere: du	ust/mist
			Method: OECD Test	t Guideline 403
			Remarks: Based on	data from similar materials
Acute	dermal toxicity	:	LD50 (Rabbit): > 2.0 Method: OECD Test	
				Ibstance or mixture has no acute derma
			toxicity	
			Remarks: Based on	data from similar materials
Nony	Iphenol, ethoxylated	1:		
Acute	oral toxicity	:	LD50 (Rat): 500 - 2.	000 mg/kg
amitr	az (ISO):			
Acute	oral toxicity	:	LD50 (Rat): > 400 m	ng/kg
			LD50 (Mouse): > 1.0	085 mg/kg
			LD50 (Guinea pig): :	> 400 mg/kg
Acute	inhalation toxicity	:	Remarks: No data a	vailable
Acute	dermal toxicity	:	LD50 (Rat): > 1.600	mg/kg
7-Oxa	abicyclo[4.1.0]hept-3	B-ylmet	hyl 7-oxabicyclo[4.	1.0]heptane-3-carboxylate:
	oral toxicity	:	LD50 (Rat, male): > Method: OECD Test	2.959 - 5.000 mg/kg t Guideline 401
Acule				
	inhalation toxicity	:	LC50 (Rat): $>= 5,19$ Exposure time: 4 h	mg/l
	inhalation toxicity	:	Exposure time: 4 h Test atmosphere: du	ust/mist
	inhalation toxicity	:	Exposure time: 4 h Test atmosphere: du Method: OECD Test	ust/mist t Guideline 436
	inhalation toxicity	:	Exposure time: 4 h Test atmosphere: du Method: OECD Test	ust/mist



)	Revision Date: 06.04.2024	SDS Number: 11182725-00005	Date of last issue: 27.11.2023 Date of first issue: 21.03.2023
			Test Guideline 402 he substance or mixture has no acute derma
Skin	corrosion/irritation		
Repe	ated exposure may ca	ause skin dryness or cr	acking.
Com	oonents:		
		natics, <1% naphthale	
Asses	ssment	: Repeated expo	sure may cause skin dryness or cracking.
Nony	Iphenol, ethoxylated	d:	
Speci		: Rabbit	ideline 404
Metho Resul		: OECD Test Gu : No skin irritatio	
••			
	az (ISO):	Dabbit	
Speci Resu		: Rabbit : No skin irritatio	n
			lo[4.1.0]heptane-3-carboxylate:
Speci	es	: Rabbit	
Metho			ideline 404
	bd	: OECD Test Gu : No skin irritatio	
Metho Resul	od It	: OECD Test Gu : No skin irritatio	
Metho Resul	od It <b>us eye damage/eye</b>	: OECD Test Gu : No skin irritatio	
Metho Resul Serio Cause	od It <b>us eye damage/eye</b> es serious eye damag	: OECD Test Gu : No skin irritatio	
Metho Resul Serio Causo <u>Comp</u>	od It <b>us eye damage/eye</b> es serious eye damag <u>ponents:</u>	: OECD Test Gu : No skin irritatio irritation ge.	n
Metho Result Serio Causo <u>Comp</u> Hydro	od It <b>us eye damage/eye</b> es serious eye damag <u>ponents:</u> ocarbons, C10, aron	: OECD Test Gu : No skin irritatio irritation ge. natics, <1% naphthale	n
Metho Resul Serio Causo <u>Comp</u>	od It u <b>s eye damage/eye</b> es serious eye damag <u>ponents:</u> pcarbons, C10, aron ies	: OECD Test Gu : No skin irritatio irritation ge. natics, <1% naphthale : Rabbit : No eye irritation	ท ะ <b>ทe:</b> า
Metho Result Serio Cause <u>Comp</u> Hydro	od It <b>us eye damage/eye</b> es serious eye damag <u>ponents:</u> ocarbons, C10, aron ies It	: OECD Test Gu : No skin irritatio irritation ge. natics, <1% naphthale : Rabbit : No eye irritation	n ene:
Metho Result Serio Cause Comp Hydro Speci Result Rema	od It <b>us eye damage/eye</b> es serious eye damag <u>ponents:</u> ocarbons, C10, aron ies It	: OECD Test Gu : No skin irritatio irritation ge. natics, <1% naphthale : Rabbit : No eye irritation : Based on data	ท ะ <b>ทe:</b> า
Metho Result Serio Cause Comp Hydro Speci Result Rema Nony	od It <b>us eye damage/eye</b> es serious eye damag <u>ponents:</u> ocarbons, C10, aron les It arks Iphenol, ethoxylated les	: OECD Test Gu : No skin irritation ge. natics, <1% naphthale : Rabbit : No eye irritation : Based on data d: : Rabbit	n n <b>e:</b> n from similar materials
Metho Result Serio Causo Comp Hydro Speci Result Rema Nony Speci Metho	od It <b>us eye damage/eye</b> es serious eye damag <u>ponents:</u> ocarbons, C10, aron ies It arks <b>Iphenol, ethoxylated</b> ies od	: OECD Test Gu : No skin irritatio irritation ge. natics, <1% naphthale : Rabbit : No eye irritation : Based on data d: : Rabbit : OECD Test Gu	n e <b>ne:</b> from similar materials ideline 405
Metho Result Serio Cause Comp Hydro Speci Result Rema Nony	od It <b>us eye damage/eye</b> es serious eye damag <u>ponents:</u> ocarbons, C10, aron ies It arks <b>Iphenol, ethoxylated</b> ies od	: OECD Test Gu : No skin irritation ge. natics, <1% naphthale : Rabbit : No eye irritation : Based on data d: : Rabbit	n e <b>ne:</b> from similar materials ideline 405
Metho Result Serio Cause Comp Hydro Speci Result Rema Nony Speci Metho Result amitr	od It us eye damage/eye es serious eye damag <u>ponents:</u> ocarbons, C10, arom ies It arks I <b>phenol, ethoxylated</b> ies od It az (ISO):	<ul> <li>: OECD Test Gu</li> <li>: No skin irritation</li> <li>ge.</li> <li>natics, &lt;1% naphthale</li> <li>: Rabbit</li> <li>: No eye irritation</li> <li>: Based on data</li> <li>d:</li> <li>: CECD Test Gu</li> <li>: Irreversible effetter</li> </ul>	n e <b>ne:</b> from similar materials ideline 405
Metho Result Serio Cause Comp Hydro Speci Result Rema Nony Speci Metho Result amitr	od It us eye damage/eye es serious eye damag <u>ponents:</u> ocarbons, C10, arom ies It arks Iphenol, ethoxylated ies od It az (ISO):	<ul> <li>: OECD Test Gu</li> <li>: No skin irritation</li> <li>ge.</li> <li>natics, &lt;1% naphthale</li> <li>: Rabbit</li> <li>: No eye irritation</li> <li>: Based on data</li> <li>d:</li> <li>: CECD Test Gu</li> <li>: Irreversible effe</li> <li>: Rabbit</li> </ul>	n e <b>ne:</b> from similar materials ideline 405 ects on the eye
Metho Result Serio Cause Comp Hydro Speci Result Rema Nony Speci Metho Result amitr	od It us eye damage/eye es serious eye damag <u>ponents:</u> ocarbons, C10, arom ies It arks Iphenol, ethoxylated ies od It az (ISO):	<ul> <li>: OECD Test Gu</li> <li>: No skin irritation</li> <li>ge.</li> <li>natics, &lt;1% naphthale</li> <li>: Rabbit</li> <li>: No eye irritation</li> <li>: Based on data</li> <li>d:</li> <li>: CECD Test Gu</li> <li>: Irreversible effetter</li> </ul>	n e <b>ne:</b> from similar materials ideline 405 ects on the eye
Metho Result Serio Cause Comp Hydro Speci Result Rema Nony Speci Metho Result amitr Speci Result Result Area	od It us eye damage/eye es serious eye damag <u>ponents:</u> ocarbons, C10, arom es It arks Iphenol, ethoxylated es od It az (ISO): es It	<ul> <li>: OECD Test Gu</li> <li>: No skin irritation</li> <li>ge.</li> <li>natics, &lt;1% naphthale</li> <li>: Rabbit</li> <li>: No eye irritation</li> <li>: Based on data</li> <li>d:</li> <li>: CECD Test Gu</li> <li>: Irreversible effe</li> <li>: Rabbit</li> <li>: No eye irritation</li> </ul>	n e <b>ne:</b> from similar materials ideline 405 ects on the eye
Metho Result Serio Cause Comp Hydro Speci Result Rema Nony Speci Metho Result amitr Speci Result	bd It us eye damage/eye es serious eye damage <u>ponents:</u> ocarbons, C10, arom les It arks Iphenol, ethoxylated les od It az (ISO): les It abicyclo[4.1.0]hept-3 les	<ul> <li>: OECD Test Gu</li> <li>: No skin irritation</li> <li>ge.</li> <li>natics, &lt;1% naphthale</li> <li>: Rabbit</li> <li>: No eye irritation</li> <li>: Based on data</li> <li>d:</li> <li>: CECD Test Gu</li> <li>: Irreversible effe</li> <li>: Rabbit</li> <li>: No eye irritation</li> </ul>	n me: from similar materials ideline 405 ects on the eye



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Resp	iratory or skin sens	itisatio	n	
Skin	sensitisation			
May c	ause an allergic skin	reactio	n.	
Resp	iratory sensitisation	1		
Not cl	lassified based on ava	ailable	information.	
Comp	oonents:			
Hydro	ocarbons, C10, aron	natics,	<1% naphthaler	ne:
Test 1	Гуре	:	Maximisation Te	est
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Resul Rema		:	negative Based on data f	rom similar materials
Reina		•	Daseu un uala i	ion sinilar materials
Nony	Iphenol, ethoxylated	d:		
Test 1	Гуре	:	Maximisation Te	est
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Resul Rema		-	negative Based on data f	rom similar materials
ILCING		•	Dased on data i	
amitra	az (ISO):			
Test 1	Гуре	:	Maximisation Te	est
	sure routes	:	Dermal	
Speci		:	Guinea pig	
Resul	I	:	Sensitiser	
7-Oxa	abicyclo[4.1.0]hept-3	8-ylme	thyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
Test 1	Гуре		Maximisation Te	est
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Resul	lt	:	positive	
Asses	ssment	:	Probability or ev	idence of skin sensitisation in humans
Germ	cell mutagenicity			
	ected of causing gene	etic def	ects.	
Comp	oonents:			
	ocarbons, C10, aron	natics.	<1% naphthaler	De:
	toxicity in vitro	:	-	ro sister chromatid exchange assay in mam
00110		•	malian cells	
11			Result: negative	
				d on data from similar materials
11			Toot Typo: Muta	genicity (in vivo mammalian bone-marrow
Geno	toxicity in vivo	•	Test Type. Mula	igeniony (in vivo manimalian pone-manow
Geno	toxicity in vivo	•	cytogenetic test	, chromosomal analysis)
Geno	toxicity in vivo	·	cytogenetic test. Species: Rat	



ersion 0	Revision Date: 06.04.2024	SDS Number:Date of last issue: 27.11.202311182725-00005Date of first issue: 21.03.2023
		Result: negative Remarks: Based on data from similar materials
	phenol, ethoxylated oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
amitra	az (ISO):	
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
II 7-Оха	hicyclo[4 1 0]hent-3	ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: positive
		Test Type: In vitro mammalian cell gene mutation test Result: positive
		Test Type: In vitro sister chromatid exchange assay in mam malian cells Result: positive
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: positive
Genot	oxicity in vivo	<ul> <li>Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Rat Application Route: Ingestion Method: OECD Test Guideline 486 Result: negative</li> </ul>
		Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative
		Test Type: Transgenic rodent somatic cell gene mutation as say Species: Mouse



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			Application Route Method: OECD T Result: positive	: Ingestion est Guideline 488
	n cell mutagenicity- As- ment	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
	<b>inogenicity</b> classified based on availa	able	information.	
	ponents:			
amit	raz (ISO):			
Spec		:	Rat	
	cation Route	÷	Oral 2 Years	
NOA		÷	> 10,18 mg/kg bo	dv weight
Resu		:	negative	
Spec	ies	•	Mouse	
	sure time	÷	2 Years	
LOA		:	2,3 mg/kg body w	reight
	Result		positive	
<b>I</b> arg	et Organs	•	Liver, Stomach	
7-Ox	abicyclo[4.1.0]hept-3-y	Ime	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Spec		:	Mouse	
	cation Route	:	Skin contact	
	sure time	÷	29 Months	
Resu	III	•	negative	
Repr	oductive toxicity			
Not c	lassified based on availa	able	information.	
<u>Com</u>	ponents:			
Hydr	ocarbons, C10, aromat	ics,	<1% naphthalene	):
Effec	ts on fertility	:	Test Type: Three	-generation reproduction toxicity study
			Species: Rat	
			Application Route Result: negative	: inhalation (vapour)
				on data from similar materials
Effec	ts on foetal develop-		Test Type: Embry	vo-foetal development
ment	•	•	Species: Rat	
			Application Route	: Ingestion
			Result: negative	and the factor should be an effectively
			Remarks: Based	on data from similar materials
amit	raz (ISO):			
	ts on fertility	:	Test Type: Three	-generation reproduction toxicity study
	-		Species: Rat	
11			Application Route	: Oral



rsion )	Revision Date: 06.04.2024		DS Number: 182725-00005	Date of last issue: 27.11.2023 Date of first issue: 21.03.2023
				: > 4,8 mg/kg body weight icant adverse effects were reported
Effect ment	s on foetal develop-	:	Species: Rat Application Rout Developmental	ryo-foetal development e: Oral Foxicity: NOAEL: 3 mg/kg body weight nificant adverse effects were reported
			Species: Rabbit Application Rout Developmental	ryo-foetal development e: Oral Foxicity: NOAEL: 5 mg/kg body weight n foetal development
7-Oxa	bicvclo[4.1.0]hept-3-	vlme	thyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
	s on foetal develop-	:	Test Type: Emb Species: Rat Application Rout	ryo-foetal development e: Ingestion Test Guideline 414
	<b>- single exposure</b> ause drowsiness or di	zzine	SS.	
May c <u>Comp</u>	ause drowsiness or di ponents: pcarbons, C10, aroma ssment		<1% naphthaler May cause drow	<b>le:</b> siness or dizziness. rom similar materials
May c <u>Comp</u> Hydro Asses Rema	ause drowsiness or di ponents: pcarbons, C10, aroma ssment	atics,	<1% naphthaler May cause drow Based on data fi	siness or dizziness. om similar materials
May c Comp Hydro Asses Rema STOT May c	ause drowsiness or di ponents: pcarbons, C10, aroma ssment irks - repeated exposure	atics,	<1% naphthaler May cause drow Based on data fi	siness or dizziness. om similar materials
May c Comp Hydro Asses Rema STOT May c Comp amitra	cause drowsiness or di ponents: pcarbons, C10, aroma asment irks - repeated exposure cause damage to organ	atics,	<ul> <li>&lt;1% naphthaler</li> <li>May cause drow</li> <li>Based on data fi</li> <li>ough prolonged o</li> <li>Liver, Central ne</li> </ul>	siness or dizziness. rom similar materials r repeated exposure.
May c Comp Hydro Asses Rema STOT May c Comp amitra Targe Asses	ause drowsiness or di conents: carbons, C10, aroma sment rks - repeated exposure ause damage to organ conents: az (ISO): t Organs sment	atics,	<ul> <li>&lt;1% naphthaler</li> <li>May cause drow</li> <li>Based on data fi</li> <li>ough prolonged o</li> <li>Liver, Central ne</li> <li>May cause dama</li> <li>exposure.</li> </ul>	siness or dizziness. rom similar materials r repeated exposure. ervous system age to organs through prolonged or repeated
May c <u>Comp</u> Hydro Asses Rema STOT May c <u>Comp</u> amitra Targe Asses 7-Oxa Expos Targe	ause drowsiness or di conents: carbons, C10, aroma sment rks - repeated exposure ause damage to organ conents: az (ISO): t Organs sment	atics, : ns thr : : yIme	<ul> <li>&lt;1% naphthaler</li> <li>May cause drow</li> <li>Based on data fr</li> <li>ough prolonged o</li> <li>Liver, Central ne</li> <li>May cause dama</li> <li>exposure.</li> <li>thyl 7-oxabicycle</li> <li>Ingestion</li> <li>nasal cavity</li> <li>Shown to produce</li> </ul>	siness or dizziness. Form similar materials r repeated exposure. Prvous system age to organs through prolonged or repeated o[4.1.0]heptane-3-carboxylate:
May c <u>Comp</u> Hydro Asses Rema STOT May c <u>Comp</u> amitra Targe Asses 7-Oxa Expos Targe Asses	ause drowsiness or di bonents: boarbons, C10, aroma ssment irks - repeated exposure cause damage to organ bonents: az (ISO): t Organs ssment bicyclo[4.1.0]hept-3- sure routes t Organs	atics, : ns thr : : yIme	<ul> <li>&lt;1% naphthaler</li> <li>May cause drow</li> <li>Based on data fr</li> <li>ough prolonged o</li> <li>Liver, Central ne</li> <li>May cause dama</li> <li>exposure.</li> <li>thyl 7-oxabicycle</li> <li>Ingestion</li> <li>nasal cavity</li> <li>Shown to produce</li> </ul>	siness or dizziness. Form similar materials r repeated exposure. Prvous system age to organs through prolonged or repeater <b>b[4.1.0]heptane-3-carboxylate:</b> ce significant health effects in animals at cor
May c <u>Comp</u> Hydro Asses Rema STOT May c <u>Comp</u> amitra Targe Asses 7-Oxa Expos Targe Asses Repea	ause drowsiness or di bonents: boarbons, C10, aroma asment irks - repeated exposure cause damage to organ bonents: az (ISO): t Organs asment bicyclo[4.1.0]hept-3- sure routes t Organs ssment	atics, : ns thr : : yIme	<ul> <li>&lt;1% naphthaler</li> <li>May cause drow</li> <li>Based on data fr</li> <li>ough prolonged o</li> <li>Liver, Central ne</li> <li>May cause dama</li> <li>exposure.</li> <li>thyl 7-oxabicycle</li> <li>Ingestion</li> <li>nasal cavity</li> <li>Shown to produce</li> </ul>	siness or dizziness. Form similar materials r repeated exposure. Prvous system age to organs through prolonged or repeated <b>b[4.1.0]heptane-3-carboxylate:</b> ce significant health effects in animals at cor



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NOAEL Application Route Exposure time Remarks		:	300 mg/kg Ingestion 13 Weeks Based on data fr	om similar materials
Speci NOAE Applic Expos		:	Mouse 3 mg/kg Oral 90 Days Liver	
Expos	es EL cation Route sure time et Organs	:	Dog 0,25 mg/kg Oral 90 Days Central nervous	system, Liver

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

Species NOAEL LOAEL	: Rat
NOAEL	: 5 mg/kg
LOAEL	: 50 mg/kg
Application Route	: Ingestion
Exposure time Method	: 90 Days
Method	: OECD Test Guideline 408

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### **Components:**

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### Experience with human exposure

#### Components:

amitraz (ISO):

Ingestion

: Target Organs: Central nervous system

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

#### 12.1 Toxicity

Components:

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h
	Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203

## SAFETY DATA SHEET



Toxicity to daphnia and other aquatic invertebrates Remarks: Based on data from EL50 (Daphnia magna (Wate Exposure time: 48 h Test substance: Water Accorr Method: OECD Test Guidelin	er flea)): 3 - 10 mg/l mmodated Fraction ne 202
aquatic invertebrates Exposure time: 48 h Test substance: Water Accor	mmodated Fraction ne 202
Remarks: Based on data from	n similar materials
Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella su mg/l Exposure time: 72 h Test substance: Water Accor Method: OECD Test Guidelin Remarks: Based on data from	ne 201
Nonylphenol, ethoxylated:	
	(fathead minnow)): > 0,1 - 1 mg/l n similar materials
Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia (v aquatic invertebrates : Exposure time: 48 h Remarks: Based on data from	
Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricor mg/l Exposure time: 72 h Method: OECD Test Guidelin Remarks: Based on data from	
EC10 (Selenastrum capricorr Exposure time: 72 h Method: OECD Test Guidelin Remarks: Based on data from	
M-Factor (Acute aquatic tox- : 1 icity)	
Toxicity to fish (Chronic tox- icity) : NOEC: > 0,1 - 1 mg/l Exposure time: 100 d Species: Oryzias latipes (Jap Remarks: Based on data from	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)NOEC: > 0,001 - 0,01 mg/l Exposure time: 28 d Species: Mysidopsis bahia (c Remarks: Based on data from	
M-Factor (Chronic aquatic : 10 toxicity)	
amitraz (ISO):	
Toxicity to fish:LC50 (Lepomis macrochirus Exposure time: 96 h	(Bluegill sunfish)): 0,45 mg/l

### SAFETY DATA SHEET



## Amitraz (12.5%) EC Formulation

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	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0,035 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	NOEC (Pseudokii mg/l Exposure time: 91	rchneriella subcapitata (green algae)): 0,04 I h
M-Fact icity)	tor (Acute aquatic tox-	:	10	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC: 0,00148 n Exposure time: 32 Species: Pimepha	
	y to daphnia and other c invertebrates (Chron- city)		Exposure time: 21	
M-Fact toxicity	tor (Chronic aquatic ′)	:	10	
	<b>bicyclo[4.1.0]hept-3-yl</b> y to fish	me :	LC50 (Oncorhync	[ <b>4.1.0]heptane-3-carboxylate:</b> hus mykiss (rainbow trout)): 24 mg/l
			Exposure time: 96 Method: OECD To	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicit plants	y to algae/aquatic	:	ErC50 (Raphidoco 110 mg/l Exposure time: 72 Method: OECD To	
			NOEC (Raphidoc mg/l Exposure time: 72 Method: OECD To	
Toxicit	y to microorganisms	:	EC10 (activated s Exposure time: 3	sludge): 409 mg/l

#### 12.2 Persistence and degradability

#### Components:

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 49,56 % Exposure time: 28 d Method: OECD Test Guideline 301E
		Method: OECD Test Guideline 301F

#### Nonylphenol, ethoxylated:



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Biode	Biodegradability		readily biodegradable. Based on data from similar materials
7-0x	abicyclo[4.1.0]hept-3-y	/Imethyl 7-oxabi	cyclo[4.1.0]heptane-3-carboxylate:
Biode	Biodegradability		readily biodegradable. tion: 71 % me: 28 d ECD Test Guideline 301B
12.3 Bioa	ccumulative potential		
Com	ponents:		
Nony	uphenol, ethoxylated:		
Partit	ion coefficient: n-	: log Pow: 4,	48
amitr	az (ISO):		
Bioad	cumulation		pomis macrochirus (Bluegill sunfish) ration factor (BCF): 1.333
	ion coefficient: n- ol/water	: log Pow: 5,	5
		/Imethyl 7-oxabi	cyclo[4.1.0]heptane-3-carboxylate:
	ion coefficient: n- ol/water	: log Pow: 1, Method: OE	34 ECD Test Guideline 107
12.4 Mobi	ility in soil		
Com	ponents:		
amitr	az (ISO):		
Distri	bution among environ- al compartments	: log Koc: 3,3	3
12.5 Resi	Its of PBT and vPvB a	issessment	
Prod	uct:		
Asse	ssment	to be either	nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of her.
12.6 Othe	r adverse effects		
Prod	uct:		
	crine disrupting poten-	have endoo ing to REA	nce/mixture contains components considered to rine disrupting properties for environment, accord- CH Article 57(f), Commission Regulation (EU) r Commission Delegated Regulation (EU)



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<u>Compo</u>				
	henol, ethoxylated: ine disrupting poten-	:		s considered to have endocrine disrupting ding to REACH Article 57(f) for the environ-

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

#### 13.1 Waste treatment methods

Product	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Wa are not product specific, but application specific. Waste codes should be assigned by the user, pre discussion with the waste disposal authorities. Do not dispose of waste into sewer.	
Contaminated packaging	Empty containers should be taken to an approved dling site for recycling or disposal. If not otherwise specified: Dispose of as unused p	

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

#### 14.1 UN number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082

#### 14.2 UN proper shipping name

ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol, ethoxylated, amitraz (ISO))
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol, ethoxylated, amitraz (ISO))
RID 	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol, ethoxylated, amitraz (ISO))
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol, ethoxylated, amitraz (ISO))
IATA II	:	Environmentally hazardous substance, liquid, n.o.s. (Nonylphenol, ethoxylated, amitraz (ISO))

14.3 Transport hazard class(es)



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			Class	Subsidiary risks
ADN		•	9	
ADR			9	
RID		:	9	
IMDG			9	
IATA			9	
14.4 Packi	na aroun	•	5	
	ng group			
Classi	ng group fication Code d Identification Number	:	III M6 90 9	
Classi Hazar Labels	ng group fication Code d Identification Number s I restriction code	:	III M6 90 9 (-)	
Classi	ng group fication Code d Identification Number	:	III M6 90 9	
<b>IMDG</b> Packir Labels EmS (		:	III 9 F-A, S-F	
Packir aircraf Packir	ng instruction (LQ)	:	964 Y964 III Miscellaneous	
Packir	(Passenger) ng instruction (passen-	:	964	
	ng instruction (LQ) ng group	:	Y964 III Miscellaneous	
14.5 Envir	onmental hazards			
<b>ADN</b> Enviro	nmentally hazardous	:	yes	
	nmentally hazardous	:	yes	
<b>RID</b> Enviro	nmentally hazardous	:	yes	



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<b>IMDO</b> Marir	e pollutant	: yes			
	(Passenger) onmentally hazardous	: yes			
	(Cargo) onmentally hazardous	: yes			
14.6 Spec	ial precautions for us	er			
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 Tran	sport in bulk accordin	g to Annex II of Ma	rpol and the IBC Code		
Rema	arks	: Not applicable	for product as supplied.		
SECTION	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 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 lines.
Full text of H-Statements		
H302		Harmful if swallowed.
H304		May be fatal if swallowed and enters airways.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eve damage.
H336	:	May cause drowsiness or dizziness.
H341	:	Suspected of causing genetic defects.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.



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Full t	ext of other abbrevia	ations		
Aqua Asp. Eye I Muta Skin S	tic Acute tic Chronic Tox. Dam. Sens.	::	Long-term (chro Aspiration haza Serious eye da Germ cell muta Skin sensitisatio	mage genicity on
		Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure		

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 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 - Verv Persistent and Verv 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	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method



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Muta.	2	H341	Calculation method
STOT	SE 3	H336	Calculation method
STOT	RE 2	H373	Calculation method
Asp. 7	Гох. 1	H304	Calculation method
Aquatic Acute 1		H400	Calculation method
Aquatic Chronic 1		H410	Calculation method

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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