

Version 6.0	Revision Date: 28.09.2024	SDS Numbe 1642421-000		Date of last issue: 06.04.2024 Date of first issue: 09.05.2017	
SECTIO	N 1: Identification of	the substan	ce/mixtu	ure and of the company/undertaking	
	uct identifier				
Trade	e name	: Amitraz I	Liquid Fo	rmulation	
1.2 Relev	ant identified uses of	the substance	e or mixt	ure and uses advised against	
	of the Sub- ce/Mixture	: Veterina	ry produc	t	
Recc on us	ommended restrictions se				
1.3 Detail	s of the supplier of the	e safety data s	sheet		
Com	pany	: MSD 20 Sparts 1619 Sp		outh Africa	
Telep	phone	: +271192	239300		
	ail address of person onsible for the SDS	: EHSDAT	rastew/	ARD@msd.com	
	gency telephone numl 08-423-6000	ber			
SECTIO	N 2: Hazards identifi	cation			
2.1 Class	ification of the substa	nce or mixture	e		
Clas	sification (REGULATIO	ON (EC) No 12	72/2008)		
	mable liquids, Category irritation, Category 2	3		Flammable liquid and vapour. Causes skin irritation.	
Skin	sensitisation, Category		H317:	May cause an allergic skin reaction.	
	n cell mutagenicity, Cate inogenicity, Category 1			May cause genetic defects. May cause cancer.	
	oductive toxicity, Category			Suspected of damaging fertility or the un-	

Specific target organ toxicity - single exposure, Category 3 Specific target organ toxicity - repeated exposure, Category 2 Aspiration hazard, Category 1

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H373: May cause damage to organs through pro-

H336: May cause drowsiness or dizziness.

longed 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.

born child.



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2.2 Label	elements			
Labe	lling (REGULATION	(EC) No 1272	2/2008)	
Haza	rd pictograms			
Signa	al word	: Dange	er	\mathbf{v} \mathbf{v} \mathbf{v}
Haza	rd statements	: H226 H304 H315 H317 H336 H340 H350 H361 H373 repeat H410	May be fa Causes s May caus May caus May caus Suspecte May caus ed exposu	le liquid and vapour. atal if swallowed and enters airways. kin irritation. se an allergic skin reaction. se drowsiness or dizziness. se genetic defects. se cancer. ed of damaging fertility or the unborn child. se damage to organs through prolonged or re. c to aquatic life with long lasting effects.
Preca	autionary statements	P273 P280	Obtain sp Keep aw and other Avoid rel	pecial instructions before use. ay from heat, hot surfaces, sparks, open ignition sources. No smoking. ease to the environment. tective gloves/ protective clothing/ eye prote on.

Hazardous components which must be listed on the label:

Solvent naphtha (petroleum), light aromatic 4-Nonylphenol, branched, ethoxylated amitraz (ISO) 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate

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.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light aromatic	64742-95-6 265-199-0 649-356-00-4	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Muta. 1B; H340 Carc. 1B; H350 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 60 - <= 70
4-Nonylphenol, branched, ethoxylat- ed	127087-87-0	Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	>= 10 - <= 20
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	12,5
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	< 10

For explanation of abbreviations see section 16.

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SECTION	l 4: First aid measur	es		
4.1 Descri	ption of first aid meas	sure	S	
Gene	ral advice	:	vice immediate	accident or if you feel unwell, seek medical ac ely. ns persist or in all cases of doubt seek medica
Protec	ction of first-aiders	:	and use the re	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
lf inha	lled	:	If inhaled, remo Get medical at	
In cas	e of skin contact	:	for at least 15 i and shoes. Get medical at Wash clothing	
In cas	e of eye contact	:		n water as a precaution. tention if irritation develops and persists.
lf swa	llowed	:	If vomiting occ Call a physicia Rinse mouth th	OO NOT induce vomiting. urs have person lean forward. n or poison control centre immediately. horoughly with water. rthing by mouth to an unconscious person.
4.2 Most i	mportant symptoms a	nd e	effects, both ac	ute and delayed
Risks		:	Causes skin irr May cause an May cause dro May cause ger May cause car Suspected of c	allergic skin reaction. wsiness or dizziness. netic defects.
4.3 Indicat	tion of any immediate	me	dical attention a	and special treatment needed
Treatr	•	:		atically and supportively.
SECTION	5: Firefighting mea	sur	es	
5.1 Exting	uishing media			
-	ble extinguishing media	:	Water spray Alcohol-resista Carbon dioxide	



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				Dry chemical	
	Unsuitable extinguishing media		:	High volume wate	er jet
5.2 S	Special	hazards arising from	the	substance or mi	xture
	Specific fighting	hazards during fire-	:	fire. Flash back possik Vapours may form	a water stream as it may scatter and spread able over considerable distance. In explosive mixtures with air. Dustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides	
5.3 A	Advice f	or firefighters			
	Special for firefi	protective equipment ghters	:		e, wear self-contained breathing apparatus. rective equipment.
	Specific ods	extinguishing meth-	:	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

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 protective equipment recommendations (see section 8).
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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 Methods and material for containment and cleaning up

Methods for cleaning up	 Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.



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		bent. Local or nation posal of this ma employed in th mine which reg Sections 13 an	ining materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- gulations are applicable. d 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

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

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. Avoid contact with 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye 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 engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
7.2 Conditions for safe storage, inc	cluding any incompatibilities
Requirements for storage :	Keep in properly labelled containers. Store locked up. Keep

SECTION 7:	Handling	and	storage
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Do not store with the following product types: Advice on common storage :

away from heat and sources of ignition.



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		Organic peroxic Flammable soli Pyrophoric liqu Pyrophoric soli Self-heating su Substances an flammable gase Explosives Gases	Ibstances and mixtures des ids ids ds bstances and mixtures d mixtures, which in contact with water, emit

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
amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 µg/100 cm²	Internal

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

	<u> </u>	<u> </u>	<u> </u>	
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
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

dr

a dry

Amitraz Liquid Formulation

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			weight (d.w.)		
		Marine sedim			
		Soil	0.0282 mg/kg		

8.2 Exposure controls

Engineering measures

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

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

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

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

· · · · · · · · · · · · · · · · · · ·			
Eye/face protection :		Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.	
Hand protection			
Material	:	Chemical-resistant gloves	
Remarks	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.	
Skin and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.	
Filter type	:	Combined particulates and organic vapour type (A-P)	

Personal protective equipment

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	 liquid Colorless to pale yellow No data available No data available
рН	: No data available
Melting point/freezing point	: No data available

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Amitraz Liquid Formulation

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Initial boi range	Initial boiling point and boiling range		No data available)
Flash point		:	56 °C	
Evaporation rate		:	No data available	9
Flammab	pility (solid, gas)	:	Not applicable	
Upper ex flammabi	plosion limit / Upper ility limit	:	No data available	
Lower ex flammabi	plosion limit / Lower ility limit	:	No data available)
Vapour p	oressure	:	No data available	9
Relative	vapour density	:	No data available	9
Relative	density	:	No data available)
Density		:	0,92 - 1,20 g/cm ³	
	solubility coefficient: n-	:	No data available No data available	
	tion temperature	:	No data available	9
Decompo	osition temperature	:	No data available)
Viscosity Viscos	sity, kinematic	:	No data available)
Explosive	e properties	:	Not explosive	
Oxidizing	properties	:	The substance of	r mixture is not classified as oxidizing.
9.2 Other info	ormation			
Flammab	oility (liquids)	:	Not applicable	
Molecula	r weight	:	Not applicable	
Particle s	size	:	No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.



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10.3 Possi	bility of hazardous rea	actio	ons	
Hazar	dous reactions	:		l and vapour. m explosive mixture with air. rrong oxidizing agents.
10.4 Cond	itions to avoid			
Condi	tions to avoid	:	Heat, flames and	l sparks.
0.5 Incon	npatible materials			
Materi	ials to avoid	:	Oxidizing agents	
No ha	rdous decomposition	proc	ducts are known.	
	-			
	nation on toxicologica nation on likely routes of			
expos		•	Skin contact Ingestion Eye contact	
Not cla	e toxicity assified based on availa	ıble	information.	
<u>Produ</u> Acute	oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2.000 mg/kg on method
Comp	oonents:			
Solve	nt naphtha (petroleum	ı), li	ght aromatic:	
	oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5,6 Exposure time: 4 Test atmosphere	h
Acute	dermal toxicity	:	LD50 (Rabbit): >	2.000 mg/kg
4-Non	viphenol, branched, e	tho	xvlated:	
	ylphenol, branched, e oral toxicity		xylated: LD50 (Rat): > 2.0	00 mg/kg
Acute	oral toxicity		-	00 mg/kg
Acute amitra			-	
Acute amitra	oral toxicity		LD50 (Rat): > 2.0) mg/kg
Acute amitra	oral toxicity		LD50 (Rat): > 2.0 LD50 (Rat): > 400	0 mg/kg 1.085 mg/kg

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ersion)	Revision Date: 28.09.2024	SDS Number: 1642421-00020	Date of last issue: 06.04.2024 Date of first issue: 09.05.2017
			600 mm/lug
Acute	e dermal toxicity	: LD50 (Rat): > 1	.600 mg/kg
7-0xa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Acute	e oral toxicity		e): > 2.959 - 5.000 mg/kg Test Guideline 401
Acute	e inhalation toxicity		4 h
Acute	e dermal toxicity		.000 mg/kg Test Guideline 402 ne substance or mixture has no acute derma
II Skin	corrosion/irritation		
Caus	es skin irritation.		
Com	ponents:		
	ent naphtha (petrole		
Spec		: Rabbit	
Meth		: OECD Test Gu	Ideline 404
Resu	π	: Skin irritation	
4-No	nylphenol, branched	, ethoxylated:	
Spec	ies	: Rabbit	
Meth		: OECD Test Gu	ideline 404
Resu		: No skin irritation	•
Rema	arks	: Based on data	from similar materials
amitr	az (ISO):		
Spec		: Rabbit	
Resu		: No skin irritation	n
7-Ox	abicvclo[4.1.0]hept-3	-vlmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Spec		: Rabbit	
Meth		: OECD Test Gu	ideline 404
Resu		: No skin irritation	
Serio	ous eye damage/eye	irritation	
	lassified based on ava		
Com	ponents:		
Solv	ent naphtha (petrole	(m) light aromatics	
		· Rabbit	
		D A U U U	



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Metho Resu		: OECD Test Guideline 405: No eye irritation					
4-Noi	4-Nonylphenol, branched, ethoxylated:						
Speci		: Rabbit					
Metho Resu		: OECD Test Guideline 405 : No eye irritation					
Rema		: Based on data from similar materials					
	amitraz (ISO):						
Speci Resu		: Rabbit : No eye irritation					
7-Oxa	7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:						
Speci		: Rabbit					
Metho Resu		: OECD Test Guideline 405 : No eye irritation					
Skin May o Resp Not cl <u>Com</u>	iratory or skin sensi sensitisation cause an allergic skin iratory sensitisation lassified based on ava ponents: ent naphtha (petrole	reaction. ailable information. um), light aromatic:					
Test	i ype sure routes	: Buehler Test : Skin contact					
Speci	ies	: Guinea pig					
Resu	lt	: negative					
4-Noi	nylphenol, branched	, ethoxylated:					
Test		: Maximisation Test					
Expos	sure routes ies	: Skin contact : Guinea pig					
Resu		: negative					
Rema	arks	: Based on data from similar materials					
amitr	az (ISO):						
Test		: Maximisation Test					
Expos Speci	sure routes ies	: Dermal : Guinea pig					
Resul		: Sensitiser					
7-Oxa	abicyclo[4.1.0]hept-3	-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:					
Test		: Maximisation Test					
	sure routes	: Skin contact					
Speci	ies	: Guinea pig					



Result:: positiveIdeasessment:: Probability or evidence of skin sensitisation in humansGern cell mutagenicity May cause genetic defects.Solvent naphtha (petroleum), light aromatic: Genotoxicity in vitroGenotoxicity in vitro:: Test Type: Bacterial reverse mutation assay (AMES) Result: negativeGenotoxicity in vitro:: Test Type: State chromatil exchange analysis in spermato- gonia . Application Route: Intraperitoneal injection Result: positiveGenotoxicity in vitro:: Test Type: State rhomatil exchange analysis in spermato- gonia . Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammalisGern cell mutagenicity- As- sessment:: Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammalisHonylphenol, branched, ethoxylated: Genotoxicity in vitro:: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Result: negativeamtraz (ISO): Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Result: negative Result: negative Result: negative Result: negative Result: negative Result: negative Result: negativeinteract (ISO): Genotoxicity in vitro	Version 6.0	Revision Date: 28.09.2024		Number: 2421-00020	Date of last issue: 06.04.2024 Date of first issue: 09.05.2017
Germ cell mutagenicity May cause genetic defects. Components: Solvent naphtha (petroleum), light aromatic: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: positive Genotoxicity in vivo : Test Type: Sister chromatid exchange analysis in spermato- gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive Germ cell mutagenicity- As- sessment : Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals 4-Nonylphenol, branched, ethoxylated: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Result: negative Result: negative Result: negative Genotoxicity in vitro amitraz (ISO): : Test Type: Bacterial reverse mutation assay (AMES) Result: negative 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-	Resu	Result		oositive	
May cause genetic defects. Solvent naphtha (petroleum), light aromatic: Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vivo Test Type: Sister chromatid exchange analysis in spermato- gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive Germ cell mutagenicity- As- sessment Anonylphenol, branched, ethoxylated: Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: Chromosome aberration test in vitro Result: negative R	Asse	Assessment		Probability or evid	ence of skin sensitisation in humans
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro :: Test Type: Sister chromatild exchange analysis in spermato- gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive Germ cell mutagenicity- As- sessment : Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals 4-Nonylphenol, branched, ethoxylated: Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials amitraz (ISO): : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials amitraz (ISO): : Test Type: In vitro mammalian cell gene mutation test Result: negative Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: DNA damage and repair, unscheduled DNA syn-	May	May cause genetic defects.			
Result: negative Result: negative Test Type: In vitro mammalian cell gene mutation test Result: positive Genotoxicity in vivo : Test Type: Sister chromatid exchange analysis in spermato- gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive Germ cell mutagenicity- As- sessment : Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals 4-Nonylphenol, branched, ethoxylated: : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials amitraz (ISO): : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: Chromosome aberration test in vitro Result: negative	Solve	ent naphtha (petroleun	n), ligh	nt aromatic:	
Result: positive Genotoxicity in vivo : Test Type: Sister chromatid exchange analysis in spermato- gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive Germ cell mutagenicity- As- sessment : Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals 4-Nonylphenol, branched, ethoxylated: : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials amitraz (ISO): : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Result: negative Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Result: negative intraz (ISO): : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: Chromosome aberration test in vi	Geno	Genotoxicity in vitro			ial reverse mutation assay (AMES)
gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive Germ cell mutagenicity- As- sessment 4-Nonylphenol, branched, ethoxylated: Genotoxicity in vitro : Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Result: negative Result: negative Result: negative Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chr					mammalian cell gene mutation test
sessment tests in mammals 4-Nonylphenol, branched, ethoxylated: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials amitraz (ISO): Genotoxicity in vitro Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials amitraz (ISO): : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: DNA damage and repair, unscheduled DNA syn- : Test Type: DNA damage and repair, unscheduled DNA syn-	Geno	toxicity in vivo	Q Q Q	onia Species: Mouse Application Route	
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials amitraz (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials amitraz (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: DNA damage and repair, unscheduled DNA syn-					rom in vivo heritable germ cell mutagenicity
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials amitraz (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials amitraz (ISO): Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: In vitro mammalian cell gene mutation test Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: DNA damage and repair, unscheduled DNA syn-	11 4-No	nvinhenol branched e	thoxy	lated.	
Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials amitraz (ISO): Genotoxicity 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: Chromosome aberration test in vitro Result: negative Test Type: DNA damage and repair, unscheduled DNA syn-		•••	: T N F	est Type: Bacter //ethod: OECD Te Result: negative	est Guideline 471
Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials amitraz (ISO): Genotoxicity 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-			N F	lethod: OECD Te Result: negative	est Guideline 473
Genotoxicity 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-			N F	lethod: OECD Te Result: negative	est Guideline 476
Genotoxicity 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-	II amitr	az (ISO):			
Result: negative Test Type: Chromosome aberration test in vitro Result: negative Test Type: DNA damage and repair, unscheduled DNA syn-					ial reverse mutation assay (AMES)
Result: negative Test Type: DNA damage and repair, unscheduled DNA syn-					mammalian cell gene mutation test
					osome aberration test in vitro



rsion	Revision Date: 28.09.2024	-	S Number: 42421-00020	Date of last issue: 06.04.2024 Date of first issue: 09.05.2017
			Result: negative	9
	abicyclo[4.1.0]hept-3-	ylme	thyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Genotoxicity in vitro		:	••	terial reverse mutation assay (AMES) Test Guideline 471
			Test Type: In vi Result: positive	tro mammalian cell gene mutation test
			Test Type: In vi malian cells Result: positive	tro sister chromatid exchange assay in man
				A damage and repair, unscheduled DNA syr alian cells (in vitro)
Genotoxicity in vivo		:	mammalian live Species: Rat Application Rou	ite: Ingestion Test Guideline 486
			Test Type: Micr Species: Mouse Application Rou Result: negative	e ite: Intraperitoneal injection
			say Species: Mouse Application Rou	
Germ sessn	cell mutagenicity- As- nent	:	Positive result(s genicity tests.	s) from in vivo mammalian somatic cell muta
Carci	nogenicity			
-	cause cancer.			
<u>Com</u>	oonents:			
	ent naphtha (petroleu	m), li	-	
Speci Applio	es cation Route		Mouse Skin contact	
Expos	sure time	:	2 Years	
Resu	lt	:	positive	
Carcii ment	nogenicity - Assess-	:	Sufficient evide	nce of carcinogenicity in animal experiments



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amitraz (ISO):				
Applic Expos NOAE Result Specie Expos LOAE Result	Species Application Route Exposure time NOAEL Result Species Exposure time LOAEL Result		Rat Oral 2 Years > 10,18 mg/kg body weight negative Mouse 2 Years 2,3 mg/kg body weight positive	
7-Oxa Specie Applic Expos	Target Organs 7-Oxabicyclo[4.1.0]hept-3-y Species Application Route Exposure time Result		Liver, Stomach ethyl 7-oxabicyclo Mouse Skin contact 29 Months negative	[4.1.0]heptane-3-carboxylate:

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

Solvent naphtha (petroleum), light aromatic:

Effects on fertility	:	Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: inhalation (vapour) Result: negative
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative

4-Nonylphenol, branched, ethoxylated:

Reproductive toxicity - As- sessment	:	Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.
amitraz (ISO):		
Effects on fertility	:	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Oral Fertility: NOAEL: > 4,8 mg/kg body weight Result: No significant adverse effects were reported
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 3 mg/kg body weight Remarks: No significant adverse effects were reported



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		Species: Rabbit Application Rou Developmental	
7-Ox	abicyclo[4.1.0]hept-3-	vlmethyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
	ts on foetal develop-	: Test Type: Emb Species: Rat Application Rou	ryo-foetal development te: Ingestion Test Guideline 414
STO	T - single exposure		
	cause drowsiness or di	zziness.	
	ponents:		
	ent naphtha (petroleu		
Asse	ssment	: May cause drow	vsiness or dizziness.
May <u>Com</u> amiti Targo	Γ - repeated exposure cause damage to orgar ponents: r az (ISO): et Organs ssment	ns through prolonged of : Liver, Central ne	
7-Ox	abicyclo[4.1.0]hept-3-	ylmethyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:
Targe	sure routes et Organs ssment		ce significant health effects in animals at con- 10 to 100 mg/kg bw.
Repe	eated dose toxicity		
	ponents:		
		m) light gromotic.	
Spec	ent naphtha (petroleu	: Rat	
LOA		: 500 mg/kg	
	cation Route	: Ingestion	
Expo	sure time	: 28 Days	
4-No	nylphenol, branched,	ethoxylated:	
Spec		: Rat	
LOA		: 150 mg/kg	
Appli	cation Route	: Ingestion	



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Exposure time Method Remarks		:	 90 Days OPPTS 870.3100 Based on data from similar materials 			
Specie NOAE Applic Expos		:	Mouse 3 mg/kg Oral 90 Days Liver			
Species NOAEL Application Route Exposure time Target Organs			Dog 0,25 mg/kg Oral 90 Days Central nervous s	system, Liver		

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

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

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

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.

Components:

Solvent naphtha (petroleum), light aromatic:

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:

Solvent naphtha (petroleum), light aromatic:



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Toxicity t	to fish	:	LC50 (Pimephales promelas (fathead minnow)): 8,2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
	to daphnia and other nvertebrates	:	EL50 (Daphnia magna (Water flea)): 4,5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity t plants	to algae/aquatic	:	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
			NOELR (Pseudokirchneriella subcapitata (microalgae)): 0,5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
	to daphnia and other nvertebrates (Chron- /)	:	NOELR: 2,6 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211
4-Nonvli	phenol, branched, et	tho	xylated.
Toxicity t		:	LC50 (Pimephales promelas (fathead minnow)): > 0,1 - 1 mg Exposure time: 96 h
			Remarks: Based on data from similar materials
	to daphnia and other nvertebrates	:	Remarks: Based on data from similar materials EC50 (Ceriodaphnia dubia (water flea)): > 0,1 - 1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
aquatic i		:	EC50 (Ceriodaphnia dubia (water flea)): > 0,1 - 1 mg/l Exposure time: 48 h
aquatic in Toxicity t	nvertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): > 0,1 - 1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials ErC50 (Selenastrum capricornutum (green algae)): > 1 - 10 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
aquatic in Toxicity t plants	nvertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): > 0,1 - 1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials ErC50 (Selenastrum capricornutum (green algae)): > 1 - 10 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials EC10 (Selenastrum capricornutum (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



ersion)	Revision Date: 28.09.2024		9S Number: 42421-00020	Date of last issue: 06.04.2024 Date of first issue: 09.05.2017
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:		
M-Fac toxicity	tor (Chronic aquatic y)	:	10	
amitra	az (ISO):			
Toxici	ty to fish	:	LC50 (Lepomis m Exposure time: 96	nacrochirus (Bluegill sunfish)): 0,45 mg/l 6 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,035 mg/l Exposure time: 48 h	
Toxici [:] plants	ty to algae/aquatic	:	NOEC (Pseudoki mg/l Exposure time: 9 ⁻	rchneriella subcapitata (green algae)): 0,04 1 h
M-Fac icity)	tor (Acute aquatic tox-	:	10	
Toxici [;] icity)	ty to fish (Chronic tox-	:	NOEC: 0,00148 r Exposure time: 32 Species: Pimepha	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 27	
M-Fac toxicity	tor (Chronic aquatic y)	:	10	
7-Oxa	bicyclo[4.1.0]hept-3-yl	lme	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:
Toxici	ty to fish	:	Exposure time: 90	chus mykiss (rainbow trout)): 24 mg/l 6 h est Guideline 203
	ty to daphnia and other c invertebrates	:	Exposure time: 48	nagna (Water flea)): 40 mg/l 8 h est Guideline 202
Toxici [;] plants	ty to algae/aquatic	:	ErC50 (Raphidoc 110 mg/l Exposure time: 72 Method: OECD T	
			NOEC (Raphidoc mg/l Exposure time: 72 Method: OECD T	
Toxici	ty to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD T	



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12.2 Persi	istence and degradab	oility					
<u>Com</u>	oonents:						
Solve	ent naphtha (petroleu	m), li	ght aromatic:				
Biode	gradability	:	Result: Inherently biodegradable. Biodegradation: 94 % Exposure time: 25 d				
4-Noi	nylphenol, branched,	etho	xylated:				
Biode	Biodegradability		Result: Not readily biodegradable. Remarks: Based on data from similar materials				
7-0xa	abicyclo[4.1.0]hept-3-	ylme	thyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:			
Biode	Biodegradability		Result: Not readily biodegradable. Biodegradation: 71 % Exposure time: 28 d Method: OECD Test Guideline 301B				
12.3 Bioa	ccumulative potential	I					
Com	oonents:						
amitr	az (ISO):						
Bioac	cumulation	:		nis macrochirus (Bluegill sunfish) n factor (BCF): 1.333			
	ion coefficient: n- ol/water	:	: log Pow: 5,5				
7-Oxa	abicyclo[4.1.0]hept-3-	ylme	thyl 7-oxabicycl	o[4.1.0]heptane-3-carboxylate:			
	Partition coefficient: n- octanol/water		log Pow: 1,34 Method: OECD Test Guideline 107				
12.4 Mobi	lity in soil						
<u>Com</u>	oonents:						
amitr	az (ISO):						
Distril menta	bution among environ- al compartments	:	: log Koc: 3,3				
12.5 Resu	Its of PBT and vPvB	asse	ssment				
Prod	uct:						
Asses	ssment	:	to be either pers	mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of			
12.6 Othe	r adverse effects						
Produ							



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Endoo tial	crine disrupting poten-	have endocrine ing to REACH A	/mixture contains components considered to disrupting properties for environment, accord- Article 57(f), Commission Regulation (EU) mmission Delegated Regulation (EU)
_	<u>oonents:</u> Nylphenol, branched, e	athoxylated.	
	crine disrupting poten-	: The substance	is considered to have endocrine disrupting rding to REACH Article 57(f) for the environ-

SECTION 13: Disposal considerations

13.1 Waste treatment methods		
Product	:	Dispose of in acco According to the E are not product spe

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

SECTION 14: Transport information

ADN	:	UN 1993
ADR	:	UN 1993
RID	:	UN 1993
IMDG	:	UN 1993
ΙΑΤΑ	:	UN 1993
14.2 UN proper shipping name		
ADN	:	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic)
ADR	:	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic)
RID	:	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic)
IMDG	:	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic, amitraz (ISO))



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IAT	A	: Flammable liquid, n.o.s. (Solvent naphtha (petroleum), light aromatic)		
14.3 Tra	nsport hazard class(es)			
			Class	Subsidiary risks
ADI	N	:	3	
ADI	र	:	3	
RID		:	3	
IMD	G	:	3	
IAT	Α	:	3	
14.4 Pac	king group			
Clas	king group ssification Code ard Identification Number	: : :	III F1 30 3	
Clas Haz Lab	king group ssification Code ard Identification Number	: : : : : : : : : : : : : : : : : : : :	III F1 30 3 (D/E)	
Clas	king group ssification Code ard Identification Number	: : :	III F1 30 3	
Lab	king group	:	III 3 F-E, <u>S-E</u>	
Pac airc Pac	A (Cargo) king instruction (cargo raft) king instruction (LQ) king group	:	366 Y344 III	
Lab		:	Flammable Liquid	ds
Pac ger Pac	A (Passenger) king instruction (passen- aircraft) king instruction (LQ) king group els	:	355 Y344 III Flammable Liquid	
14.5 Env	vironmental hazards			
ADI	N			

ADN Environmentally hazardous : yes



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AD Env	R <i>v</i> ironmentally hazardous	: yes	
RI	•	: yes	
IMI Ma	DG rine pollutant	: yes	
	A (Passenger) vironmentally hazardous	: yes	
	A (Cargo) vironmentally hazardous	: yes	
14.6 Sp	ecial 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 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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

H226 :	Flammable liquid and vapour.
H302 :	Harmful if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H336 :	May cause drowsiness or dizziness.
H340 :	May cause genetic defects.
H341 :	Suspected of causing genetic defects.



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H350 H361 H373 H400 H410 H411 H412		 May cause d exposure. Very toxic to Very toxic to Toxic to aqua 	f damaging fertility or the unborn child. amage to organs through prolonged or repeated
Full te	ext of other abbreviat	ions	
	ic Acute ic Chronic Tox. Liq. rit. sens. RE	 Long-term (c Aspiration ha Carcinogenic Flammable li Germ cell mu Reproductive Skin irritation Skin sensitisa Specific targe 	acute) aquatic hazard hronic) aquatic hazard izard city quids utagenicity e toxicity

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 - Emergencv 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 - Very Persistent and Very Bioaccumulative



Version 6.0	Revision Date: 28.09.2024				of last issue: 06.04.2024 of first issue: 09.05.2017
Furthe	r information				
	s of key data used to the Safety Data	:		arch re	data from raw material SDSs, OECD sults and European Chemicals Agen- u/
Classif	ication of the mixtur	e:			Classification procedure:
Flam. L	.iq. 3	H2	26		Based on product data or assessment
Skin Irr	it. 2	H3	H315		Calculation method
Skin Se	ens. 1	H317			Calculation method
Muta. 1	В	H340			Calculation method
Carc. 1	В	H350			Calculation method
Repr. 2		H361			Calculation method
STOT S	SE 3	H336			Calculation method
STOT F	RE 2	H373			Calculation method
Asp. To	ox. 1	H304			Based on product data or assessment
Aquatio	Acute 1	H400			Calculation method
Aquatio	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.

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