



Version 3.11	Revision Date: 30.09.2023		S Number: I2403-00018	Date of last issue: 04.04.2023 Date of first issue: 09.05.2017	
SECTION	1. PRODUCT AND C	ОМРА	NY IDENTIFIC	ATION	
Produ	uct name	:	Amitraz Liquid	Formulation	
Manu	afacturer or supplier	's detai	ils		
Comp	bany	:	MSD		
Addre	Address		Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340		
Telep	hone	:	908-740-4000		
Emer	Emergency telephone		1-908-423-600	00	
E-ma	il address	:	EHSDATASTE	EWARD@msd.com	
Reco	mmended use of the	e chem	ical and restric	tions on use	
	mmended use ictions on use	:	Veterinary proo Not applicable		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard Flammable liquids : Category 3						
Acute toxicity (Oral)	:					
Skin irritation	:	Category 2				
Skin sensitization	:	Category 1				
Germ cell mutagenicity	:	Category 1B				
Carcinogenicity	:	Category 1B				
Reproductive toxicity	:	Category 2				
Specific target organ toxicity - single exposure	:	Category 3				
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, Central nervous system)				
Aspiration hazard	:	Category 1				
Short-term (acute) aquatic hazard	:	Category 1				
Long-term (chronic) aquatic	:	Category 1				



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hazar	d		
	label elements in ac rd pictograms	cordance with ABNT	NBR 14725 Standard
Signa	l Word	: Danger	
Hazar	rd Statements	H303 May be I H304 May be f H315 Causes H317 May cau H336 May cau H340 May cau H350 May cau H361 Suspecto H373 May cau system) throug	se an allergic skin reaction. se drowsiness or dizziness. se genetic defects.
Preca	utionary Statements	P210 Keep aw No smoking. P273 Avoid rel	pecial instructions before use. ay from heat/ sparks/ open flames/ hot surfac lease to the environment. otective gloves/ protective clothing/ eye protected
		Response: P301 + P310 I CENTER/ doc P391 Collect s	

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light aromatic	64742-95-6	Flammable liquids, Category 3 Skin irritation, Category 2 Germ cell mutagenici- ty, Category 1B Carcinogenicity, Category 1B	>= 60 -<= 70



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			Specific target organ toxicity - single expo- sure, Category 3 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 2	
	nylphenol, branched, ylated	127087-87-0	Reproductive toxicity, Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	>= 10 -<= 20
Amitra	az (ISO)	33089-61-1	Acute toxicity (Oral), Category 4 Specific target organ toxicity - repeated exposure (Liver, Cen- tral nervous system), Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	12,5
ylmet oxabi	abicyclo[4.1.0]hept-3- hyl 7- cyclo[4.1.0]heptane-3- xylate	2386-87-0	Acute toxicity (Oral), Category 5 Skin sensitization, Category 1 Germ cell mutagenici- ty, Category 2 Specific target organ toxicity - repeated exposure (nasal cavi- ty), Category 2 Short-term (acute) aquatic hazard, Category 3 Long-term (chronic) aquatic hazard, Category 3	< 10

SECTION 4. FIRST AID MEASURES

SAFETY DATA SHEET



Amitraz Liquid Formulation

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Gene	General advice		ase of accident or if you feel unwell, seek medical mmediately. ymptoms persist or in all cases of doubt seek medical				
lf inh	aled		d, remove to fresh air. dical attention.				
In ca	In case of skin contact		In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
In ca	se of eye contact	: Flush e	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.				
lf swa	If swallowed		wed, DO NOT induce vomiting. ng occurs have person lean forward. hysician or poison control center immediately. nouth thoroughly with water. ive anything by mouth to an unconscious person.				
	important symptoms effects, both acute and red	: May be May be Causes May cau May cau May cau May cau Suspec	harmful if swallowed. fatal if swallowed and enters airways. skin irritation. use an allergic skin reaction. use drowsiness or dizziness. use genetic defects. use cancer. ted of damaging fertility or the unborn child. use damage to organs through prolonged or repeated				
Prote	ection of first-aiders	: First Aid and use	d responders should pay attention to self-protection, the recommended personal protective equipment e potential for exposure exists (see section 8).				
Notes	s to physician		imptomatically and supportively.				

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical High volume water jet
media	•	
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers.



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	al protective equipment e-fighters	:	so. Evacuate area In the event of	naged containers from fire area if it is safe to d fire, wear self-contained breathing apparatus. rotective equipment.
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive e	nal precautions, protec- quipment and emer- procedures	:	Use personal p Follow safe ha	arces of ignition. rotective equipment. Indling advice (see section 7) and personal coment recommendations (see section 8).
Enviro	onmental precautions	:	Prevent further Prevent spread oil barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ling over a wide area (e.g., by containment or pose of contaminated wash water. is should be advised if significant spillages ained.
	ods and materials for inment and cleaning up	:	Soak up with ir Suppress (knot jet. For large spills containment to can be pumped container. Clean up rema absorbent. Local or nation disposal of this employed in th determine whic Sections 13 an	pols should be used. pert absorbent material. ck down) gases/vapors/mists with a water spray provide diking or other appropriate keep material from spreading. If diked material d, store recovered material in appropriate ining materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national requirements.

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 vapors. 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 assessment



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		Keep container Keep away fror other ignition so Take precautio	ools should be used. tightly closed. n heat, hot surfaces, sparks, open flames and ources. No smoking. nary measures against static discharges. revent spills, waste and minimize release to the
Hygie	ene measures	flushing system place. When using do Contaminated workplace. Wash contamin The effective o engineering co appropriate de	chemical is likely during typical use, provide eye as and safety showers close to the working not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the trative controls.
Cond	itions for safe storage	: Keep in proper Store locked up Keep tightly clo Keep in a cool, Store in accord	ly labeled containers.
Mate	rials to avoid	: Do not store wi Strong oxidizin Self-reactive su Organic peroxi Flammable sol Pyrophoric liqu Pyrophoric soli Self-heating su Substances an flammable gas Explosives Gases	th the following product types: g agents ubstances and mixtures des ids ds ds bstances and mixtures d mixtures which in contact with water emit

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum), light aromatic	64742-95-6	TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH
Amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 µg/100 cm ²	Internal

Engineering measures

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



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			design and opera protect products, Containment tech are required to co	ontrols should be implemented by facility ated in accordance with GMP principles to workers, and the environment. hnologies suitable for controlling compounds ontrol at source and to prevent migration of uncontrolled areas (e.g., open-face ices).
			Use explosion-pr equipment.	oof electrical, ventilating and lighting
Perso	onal protective equip	ment		
Fil	iratory protection Iter type protection	:	exposure assess recommended gr	exhaust ventilation is not available or ment demonstrates exposures outside the uidelines, use respiratory protection. ulates and organic vapor type
Ma	aterial	:	Chemical-resista	nt gloves
Re	emarks	:		gloving. Take note that the product is may impact the selection of hand
Eye p	protection	:	Wear safety glas If the work enviro mists or aerosols Wear a faceshiel	ses with side shields or goggles. onment or activity involves dusty conditions, s, wear the appropriate goggles. d or other full face protection if there is a ct contact to the face with dusts, mists, or
Skin a	and body protection	:	Work uniform or Additional body of task being perfor disposable suits)	garments should be used based upon the med (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. degowning techniques to remove potentially

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	Colorless to pale yellow
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available



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Fla	ash point	:	56 °C	
Ev	aporation rate	:	No data available	9
Fla	Flammability (solid, gas)		Not applicable	
Fla	Flammability (liquids)		Not applicable	
	Upper explosion limit / Upper flammability limit		No data available	9
	wer explosion limit / Lower mmability limit	:	No data available	9
Va	por pressure	:	No data available	9
Re	elative vapor density	:	No data available	2
Re	lative density	:	No data available	9
De	ensity	:	0,92 - 1,20 g/cm ³	3
So	lubility(ies) Water solubility	:	No data available	9
	rtition coefficient: n- tanol/water	:	No data available	9
	toignition temperature	:	No data available	2
De	ecomposition temperature	:	No data available	2
Vis	scosity Viscosity, kinematic	:	No data available	9
Ex	plosive properties	:	Not explosive	
Ox	cidizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мо	blecular weight	:	Not applicable	
Pa	Particle size		No data available	2

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.





Incom		10	42403-00018	Date of first issue: 09.05.2017
	patible materials dous decomposition cts	:		nts decomposition products are known.
SECTION	11. TOXICOLOGICAL I	NFO	ORMATION	
Inform expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity be harmful if swallowed.			
Produ				
	oral toxicity	:	Acute toxicity e Method: Calcul	estimate: 3.449 mg/kg lation method
Comp	oonents:			
Solve	nt naphtha (petroleum), li	ght aromatic:	
Acute	oral toxicity	:	LD50 (Rat): > 5	5.000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphe	: 4 h
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg
	ylphenol, branched, e oral toxicity	tho: :		2.000 mg/kg
Amitr	az (ISO):			
	oral toxicity	:	LD50 (Rat): > 4	400 mg/kg
			LD50 (Mouse):	: > 1.085 mg/kg
			LD50 (Guinea	pig): > 400 mg/kg
Acute	inhalation toxicity	:	Remarks: No d	data available
Acute	dermal toxicity	:	LD50 (Rat): > 2	1.600 mg/kg
7-Oxa	bicyclo[4.1.0]hept-3-yl	me	thyl 7-oxabicyc	clo[4.1.0]heptane-3-carboxylate:
	oral toxicity	:	LD50 (Rat, ma	le): > 2.959 - 5.000 mg/kg D Test Guideline 401
Acute	inhalation toxicity	:		: 4 h



mal toxicity rosion/irritation kin irritation. ents: haphtha (petroleu	 LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute toxicity Ight aromatic: Rabbit OECD Test Guideline 404 Skin irritation ethoxylated: Rabbit OECD Test Guideline 404 	e derma					
kin irritation. <u>ents:</u> naphtha (petroleu	 Rabbit OECD Test Guideline 404 Skin irritation 						
naphtha (petroleu	 Rabbit OECD Test Guideline 404 Skin irritation 						
	 Rabbit OECD Test Guideline 404 Skin irritation 						
henol, branched	: OECD Test Guideline 404 : Skin irritation ethoxylated: : Rabbit						
henol, branched	: Skin irritation ethoxylated: : Rabbit						
henol, branched	ethoxylated: : Rabbit						
henol, branched	: Rabbit						
	• OECD Test Guideline 404						
	: No skin irritation						
	: Based on data from similar materials						
(ISO):							
yclo[4.1.0]hept-3	: Rabbit : OECD Test Guideline 404						
	: No skin irritation						
eye damage/eye i	rritation						
ified based on ava	ilable information.						
ents:							
naphtha (petroleu	ım), light aromatic:						
	: Rabbit						
	. OECD Test Guideline 405						
henol, branched	ethoxylated:						
	: Rabbit						
	: No eye irritation						
(ISO):							
	: Rabbit						
	: No eye irritation						
	eye damage/eye i ified based on ava <u>ents:</u> naphtha (petroleu	 : OECD Test Guideline 404 : No skin irritation eye damage/eye irritation ified based on available information. ents: naphtha (petroleum), light aromatic: : Rabbit : No eye irritation : OECD Test Guideline 405 ohenol, branched, ethoxylated: : Rabbit : No eye irritation : OECD Test Guideline 405 ohenol, branched, ethoxylated: : Rabbit : No eye irritation : OECD Test Guideline 405 (ISO):					





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7-0x	abicyclo[4.1.0]hept-3	B-ylmethy	l 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Spec	ies	: Ra	abbit	
Resu			o eye irritatior	
Meth	od	: 01	ECD Test Gu	ideline 405
Resp	iratory or skin sensi	tization		
•••••	sensitization			
May	cause an allergic skin	reaction.		
-	iratory sensitization lassified based on ava		ormation.	
Com	ponents:			
Solve	ent naphtha (petrole	um), light	aromatic:	
Test		: Bu	ehler Test	
	es of exposure	-	kin contact	
Spec			uinea pig	
Resu	It	: ne	gative	
4-No	nylphenol, branched	l, ethoxyla	ated:	
Test	Туре	: Ma	aximization T	est
	es of exposure	_	kin contact	
Spec			uinea pig	
Resu			gative	for an aireilean an atariala
Rema	arks	: Ba	ised on data	from similar materials
Amit	raz (ISO):			
Test		: Ma	aximization T	est
	es of exposure		ermal	
Spec			uinea pig	141
Resu	It	: NO	ot a skin sens	sitizer.
7-0x	abicyclo[4.1.0]hept-3	B-ylmethy	l 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:
Test		: Ma	aximization T	est
	es of exposure	-	cin contact	
Spec			uinea pig	
Resu	It	: рс	sitive	
Asse	ssment	: Pr	obability or e	vidence of skin sensitization in humans
Germ	n cell mutagenicity			
May	cause genetic defects			
<u>Com</u>	ponents:			
	ent naphtha (petrole			
Geno	otoxicity in vitro		est Type: Bac esult: negativ	terial reverse mutation assay (AMES) e
		_		

Test Type: In vitro mammalian cell gene mutation test



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		Result: positive
Geno	toxicity in vivo	 Test Type: Sister chromatid exchange analysis in spermato gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive
	cell mutagenicity -	: Positive result(s) from in vivo heritable germ cell mutagenici tests in mammals
4-Noi	nylphenol, branched,	ethoxylated:
Geno	toxicity 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
Amiti	raz (ISO):	
Geno	toxicity 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
7-0xa	abicyclo[4.1.0]hept-3	/Imethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:
Geno	toxicity 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



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			NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) ve			
Geno	otoxicity in vivo	mammalian li Species: Rat Application R	nscheduled DNA synthesis (UDS) test with ver cells in vivo oute: Ingestion D Test Guideline 486 ive			
		Species: Mou	oute: Intraperitoneal injection			
		say Species: Mou Application R	oute: Ingestion D Test Guideline 488			
	n cell mutagenicity - essment		Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.			
	inogenicity cause cancer.					
Com	ponents:					
Solv	ent naphtha (petroleu	m), light aromatic:				
	ication Route	: Mouse : Skin contact : 2 Years : positive				
Carc ment	inogenicity - Assess-	: Sufficient evid	dence of carcinogenicity in animal experiments			
Amit	raz (ISO):					
	ication Route osure time EL	: Rat : Oral : 2 Years : > 10,18 mg/k : negative	g body weight			
Expo LOA Resu	Species:MouseExposure time:2 YearsLOAEL:2,3 mg/kg body weightResult:positiveTarget Organs:Liver, Stomach					



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7-0x	abicyclo[4.1.0]hept-3-y	Ime	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:			
Spec Appli	ies cation Route sure time	:	 Mouse Skin contact 29 Months negative 				
-	oductive toxicity ected of damaging fertilit	y or	the unborn child.				
Com	ponents:						
Solve	ent naphtha (petroleum), li	ght aromatic:				
Effec	ts on fertility	:	test Species: Rat	duction/Developmental toxicity screening			
Effec	ts on fetal development	:	Species: Rat	vo-fetal development :: inhalation (vapor)			
4-No	nylphenol, branched, e	tho	xylated:				
Repro sessr	oductive toxicity - As- nent	:		f adverse effects on sexual function and development, based on animal experiments.			
Amit	raz (ISO):						
Effec	ts on fertility	:	Species: Rat Application Route Fertility: NOAEL:	-generation reproduction toxicity study e: Oral > 4,8 mg/kg body weight cant adverse effects were reported			
Effec	ts on fetal development	:	Species: Rat Application Route Developmental To Remarks: No sign	oxicity: NOAEL: 3 mg/kg body weight ificant adverse effects were reported			
			Species: Rabbit Application Route Developmental To	vo-fetal development e: Oral oxicity: NOAEL: 5 mg/kg body weight i fetal development.			
7-0x	abicyclo[4.1.0]hept-3-y	Ime	thyl 7-oxabicyclo	[4.1.0]heptane-3-carboxylate:			
Effec	ts on fetal development	:	Species: Rat Application Route	vo-fetal development :: Ingestion est Guideline 414			



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	F-single exposure				
May	cause drowsiness or o	dizziness.			
Com	ponents:				
Solve	ent naphtha (petrole	um), light aromatic:			
	ssment		wsiness or dizziness.		
STO	F -repeated exposure				
	cause damage to orga		ous system) through prolonged or repeated e		
<u>Com</u>	ponents:				
Amit	raz (ISO):				
	et Organs	: Liver, Central n			
Assessment : May cause damage to organs through prolonged exposure.					
7-0x	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicyc	lo[4.1.0]heptane-3-carboxylate:		
	es of exposure	: Ingestion			
-	et Organs : nasal cavity essment : Shown to produce significant health effects in animals at centrations of >10 to 100 mg/kg bw.				
Repe	ated dose toxicity				
Com	ponents:				
Solve	ent naphtha (petrole	um), light aromatic:			
Spec	ies	: Rat			
LOAE		: 500 mg/kg			
	cation Route sure time	: Ingestion : 28 Days			
	nylphenol, branched				
Spec LOAE		: Rat : 150 mg/kg			
	₋∟ cation Route	: Ingestion			
	sure time	: 90 Days			
Meth		: OPPTS 870.31	00		
Rema			from similar materials		
Amit	raz (ISO):				
Spec		: Mouse			
NOA		: 3 mg/kg			
	cation Route	: Oral			
	sure time	: 90 Days			
Torac	ot Organs	· Livor			

Target Organs

:

Liver

: Dog



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Expos Target	ation Route ure time t Organs	:	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
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

Ecotoxicity

Components:

Solvent naphtha (petroleum), li	ght aromatic:
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 8,2 mg/l

		Exposure time: 96 h Test substance: Water Accommodated Fraction
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 4,5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201



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			mg/l Exposure time: 9 Test substance: \	kirchneriella subcapitata (microalgae)): 0,5 6 h Vater Accommodated Fraction est Guideline 201
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	Vater Accommodated Fraction
4-No	nylphenol, branched, e	tho	xylated:	
Toxic	ity to fish	:	Exposure time: 9	s promelas (fathead minnow)): > 0,1 - 1 mg 6 h on data from similar materials
	tity to daphnia and other tic invertebrates	:	Exposure time: 4	nia dubia (water flea)): > 0,1 - 1 mg/l 3 h on data from similar materials
Toxic plants	tity to algae/aquatic s	:	mg/l Exposure time: 72 Method: OECD T	um capricornutum (green algae)): > 1 - 10 2 h est Guideline 201 on data from similar materials
			Exposure time: 72 Method: OECD T	im capricornutum (green algae)): > 1 mg/l 2 h est Guideline 201 on data from similar materials
	ctor (Acute aquatic tox-	:	1	
icity) Toxic icity)	tity to fish (Chronic tox-	:	Exposure time: 1	atipes (Japanese medaka)): > 0,1 - 1 mg/l 00 d on data from similar materials
	tity to daphnia and other tic invertebrates (Chron- icity)	:	mg/l Exposure time: 2	is bahia (opossum shrimp)): > 0,001 - 0,01 3 d on data from similar materials
M-Fa toxici	ctor (Chronic aquatic ty)	:	10	
Amit	raz (ISO):			
Toxic	tity to fish	:	LC50 (Lepomis m Exposure time: 9	hacrochirus (Bluegill sunfish)): 0,45 mg/l 5 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 0,035 mg/l 3 h
Toxic plants	tity to algae/aquatic s	:	NOEC (Pseudoki mg/l	rchneriella subcapitata (green algae)): 0,04
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/ersion 3.11	Revision Date: 30.09.2023		9S Number: 42403-00018	Date of last issue: 04.04.2023 Date of first issue: 09.05.2017
			Exposure time: 91	h
M-Fact icity)	tor (Acute aquatic tox-	:	10	
	y to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 32	es promelas (fathead minnow)): 0,00148 2 d
	y to daphnia and other c invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,0011 mg/l d
M-Fact toxicity	tor (Chronic aquatic	:	10	
7-Oxal	bicyclo[4.1.0]hept-3-yl	me	thyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:
Toxicit	y to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicit <u>y</u> plants	y to algae/aquatic	:	ErC50 (Raphidoce 110 mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Raphidoco mg/l Exposure time: 72 Method: OECD Te	
Toxicit	y to microorganisms	:	EC10 (activated s Exposure time: 3 Method: OECD Te	n
Persis	tence and degradabili	ity		
<u>Comp</u>	onents:			
	nt naphtha (petroleum), li	-	
Biodeg	<i>jradability</i>	:	Result: Inherently Biodegradation: 9 Exposure time: 25	94 %
4-Nony	ylphenol, branched, e	tho	xylated:	
Biodeg	gradability	:	Result: Not readily Remarks: Based o	/ biodegradable. on data from similar materials
		me		4.1.0]heptane-3-carboxylate:
Biodeg	<i>jradability</i>	:	Result: Not readily Biodegradation: 7	



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			posure time: 2 ethod: OECD	28 d Test Guideline 301B
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Amit	raz (ISO):			
Bioad	cumulation			is macrochirus (Bluegill sunfish) n factor (BCF): 1.333
	ion coefficient: n- ol/water	: Ιοί	9 Pow: 5,5	
7-0x	abicyclo[4.1.0]hept-3-y	lmethy	7-oxabicyclo	o[4.1.0]heptane-3-carboxylate:
	ion coefficient: n- ol/water		y Pow: 1,34 ethod: OECD	Test Guideline 107
Mobi	lity in soil			
Com	ponents:			
Distri	raz (ISO): bution among environ- al compartments	: log	y Koc: 3,3	
	r adverse effects ata available			
SECTION	13. DISPOSAL CONS	DERAT	IONS	
Disp	osal methods			
		_		

Waste from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.	
Contaminated packaging	 Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury an death. If not otherwise specified: Dispose of as unused product. 	d/or

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group	::	UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic) 3 III
Labels	:	3



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E	Enviror	mentally hazardous	:	yes	
1/	ATA-C	OGR			
L	JN/ID I	No.	:	UN 1993	
F	Proper	shipping name	:	Flammable liquid, (Solvent naphtha	n.o.s. (petroleum), light aromatic)
C	Class		:	3	
F	Packing	g group	:	III	
L	abels		:	Flammable Liquid	S
	Packing aircraft	g instruction (cargo	:	366	
	Packing	g instruction (passen- craft)	:	355	
-		mentally hazardous	:	yes	
II	MDG-	Code			
L	JN nur	nber	:	UN 1993	
F	Proper	shipping name	:	FLAMMABLE LIC (Solvent naphtha	UID, N.O.S. (petroleum), light aromatic, Amitraz (ISO))
C	Class		:	3	
F	Packing	g group	:	III	
	abels	•	:	3	
E	EmS C	ode	:	F-E, <u>S-E</u>	
N	Marine	pollutant	:	yes	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

ANTT		
UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S.
		(Solvent naphtha (petroleum), light aromatic)
Class	:	3
Packing group	:	III
Labels	:	3
Hazard Identification Number	:	30

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/leg mixture	islation specific for the substance or
National List of Carcinogenic Agents for Humans - (L	LINACH)
Group 2B: Possibly carcinogenic to humans Solvent naphtha (petroleum), light aromatic	64742-95-6
Brazil. List of chemicals controlled by the Federal Police	: Solvent naphtha (petroleum), light aromatic



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The AICS		duct	are reported in the not determined	the following inventories:	
DSL		:	not determined		
IECS	SC	:	not determined		
SECTION	I 16. OTHER INFORMA	τιοι	N		
	sion Date format	:	30.09.2023 dd.mm.yyyy		
Sour	her information rces of key data used to pile the Material Safety Sheet	:		al data, data from raw material SDSs, OECD earch results and European Chemicals Agen- uropa.eu/	
Full ACG	text of other abbreviati			reshold Limit Values (TLV)	
ACG	IH / TWA	:	8-hour, time-wei	ghted average	
ACGIH / TWA : 8-hour, time-weighted average AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys- tem; 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 con- centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemi- cal Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Or- ganisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Con- centration 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Develop- ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu- lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substance es; (Q)SAR - (Quantitative) Structure Activity Relationsh					

Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recom-



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mendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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 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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