according to the Globally Harmonized System



Amitraz (12.5%) Immersion Formulation

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Amitraz (12.5%) Immersion Formulation
Manufacturer or supplier's de Company	eta :	ils MSD
Address	:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207
Telephone	:	+1-908-740-4000
Emergency telephone number	:	+1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the ch	em	ical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification Highly flammable liquids		
GHS Classification		
Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 1
Germ cell mutagenicity	:	Category 1B
Carcinogenicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, Central nervous system)
Aspiration hazard	:	Category 1





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Short- hazar	-term (acute) aquatic d	: Category 1	
Long- hazar	term (chronic) aquatic d	: Category 1	
GHS	label elements		
Hazar	rd pictograms		
Signa	l word	: Danger	• • • •
Hazar	rd statements	H302 Harmful H304 May be H315 Causes H318 Causes H336 May cau H340 May cau H350 May cau H373 May cau system) throug	fatal if swallowed and enters airways. skin irritation. serious eye damage. use drowsiness or dizziness. use genetic defects.
Preca	utionary statements	P210 Keep aw and other ignit P260 Do not b P264 Wash ha P270 Do not e P271 Use only P273 Avoid re	read and follow all safety instructions before use. vay from heat, hot surfaces, sparks, open flames tion sources. No smoking. oreathe mist or vapours. ands thoroughly after handling. eat, drink or smoke when using this product. y outdoors or with adequate ventilation. lease to the environment. otective gloves/ protective clothing/ eye protec- ection.
		cal help imme P303 + P361 - Iy all contamin P304 + P340 - and keep com unwell. P305 + P354 - with water for sent and easy P318 IF expos P331 Do NOT P332 + P317 I	 + P330 IF SWALLOWED: Get emergency medi- diately. Rinse mouth. + P353 IF ON SKIN (or hair): Take off immediate- ated clothing. Rinse affected areas with water. + P319 IF INHALED: Remove person to fresh air fortable for breathing. Get medical help if you feel + P338 + P317 IF IN EYES: Immediately rinse several minutes. Remove contact lenses, if pre- to do. Continue rinsing. Get medical help. sed or concerned, get medical advice. induce vomiting. If skin irritation occurs: Get medical help. Take off contaminated clothing and wash it before

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П		P391 Collect s	pillage.			
		Storage: P405 Store loc	Storage: P405 Store locked up.			
	Disposal: P501 Dispose of contents/ container to an appro disposal plant.					

Other hazards which do not result in classification

Vapours may form explosive mixture with air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
---------------------	---	---------

Components

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light aromatic	64742-95-6	>= 50 - < 70
Nonylphenol, ethoxylated	9016-45-9	>= 20 - < 25
amitraz (ISO)	33089-61-1	>= 10 - < 20

4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	 If inhaled, remove to fresh air. Get medical attention.
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 case of eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	 If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	 Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated

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Protection of first-aiders Notes to physician		:	exposure. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively.		
5. FIREFI	GHTING MEASURES				
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical		
Unsu medi	iitable extinguishing a	: High volume water jet		er jet	
	Specific hazards during fire- fighting		fire. Flash back possi Vapours may for	d water stream as it may scatter and spread ble over considerable distance. m explosive mixtures with air. bustion products may be a hazard to health.	
Haza ucts	Hazardous combustion prod- ucts		Carbon oxides		
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
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.
Methods and materials for : containment and cleaning up	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water

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		ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and	provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding hational requirements.
7. HANDL	ING AND STORAGE		
	nical measures	CONTROLS/PE	g measures under EXPOSURE RSONAL PROTECTION section.
Local	/Total ventilation	ventilation.	lation is unavailable, use with local exhaust roof electrical, ventilating and lighting equip-
Advic	e on safe handling	 Do not get on sk Do not breather Do not swallow. Do not get in eye Wash skin thoro Handle in accord practice, based sessment Non-sparking to Keep container Keep away from other ignition so Take precaution Do not eat, drink 	mist or vapours. es. hughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure as- ols should be used.
Cond	litions for safe storage	: Keep in properly Store locked up Keep tightly clos Keep in a cool, v Store in accorda	
Mate	rials to avoid	: Do not store with Self-reactive sub Organic peroxid Oxidizing agents Flammable gase Pyrophoric liquid Pyrophoric solid	h the following product types: ostances and mixtures es s es ds s s ostances and mixtures

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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	300 ppm 900 mg/m3	IN OEL
		STEL	500 ppm 1,500 mg/m3	IN OEL
		TWA	200 mg/m3 (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-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 contain- ment devices). Minimize open handling.
		Use explosion-proof electrical, ventilating and lighting equip- ment.
Personal protective equipme	nt	
Respiratory protection Filter type Hand protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.
Eye protection Skin and body 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. 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

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Hygie	ne measures	flushing system place. When using do Wash contamin The effective op engineering con appropriate deg	hemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	57 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
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	:	No data available
Density	:	0.930 - 1.008 g/cm ³
Solubility(ies) Water solubility	:	No data available

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	ion coefficient: n-	:	Not applicable	
	ol/water ignition temperature	:	No data available)
Deco	mposition temperature	:	No data available	
Visco Vi	sity scosity, kinematic	:	No data available	
Explo	sive properties	:	Not explosive	
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Moleo	cular weight	:	No data available	
	cle characteristics cle size	:	Not applicable	
10. STAB		Y		
	tivity nical stability ibility of hazardous reac-	:	Stable under nor Flammable liquid Vapours may for	
Incon	itions to avoid npatible materials rdous decomposition ucts	:	Heat, flames and Oxidizing agents No hazardous de	sparks. composition products are known.
11. TOXIC	OLOGICAL INFORMA	TION		
Inforr expos	nation on likely routes of sure		Inhalation Skin contact Ingestion Eye contact	
	e toxicity ful if swallowed.			
Prod	uct:			
Acute	e oral toxicity		Acute toxicity esti Method: Calculati	mate: 1,493 mg/kg on method
Com	ponents:			
Solve	ent naphtha (petroleum	n), lig	ht aromatic:	
	e oral toxicity	-	LD50 (Rat): > 5,0	00 mg/kg
Acute	e inhalation toxicity		LC50 (Rat): > 5.6 Exposure time: 4 Test atmosphere:	h

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Acute	dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg	
Nony	Iphenol, ethoxylated:		
Acute	oral toxicity	: LD50 (Rat): 500 - 2,000 mg/kg	
	az (ISO):		
Acute	oral toxicity	: LD50 (Rat): > 400 mg/kg	
		LD50 (Mouse): > 1,085 mg/kg	
		LD50 (Guinea pig): > 400 mg/kg	
Acute	inhalation toxicity	: Remarks: No data available	
Acute	dermal toxicity	: LD50 (Rat): > 1,600 mg/kg	
-	corrosion/irritation es skin irritation.		
Comp	oonents:		
Solve	nt naphtha (petroleur	n), light aromatic:	
Speci Metho Resul	bd	: Rabbit : OECD Test Guideline 404 : Skin irritation	
Nonv	Iphenol, ethoxylated:		
Speci	es	: Rabbit	
Metho Resul		: OECD Test Guideline 404 : No skin irritation	
amitra	az (ISO):		
Speci		: Rabbit	
Resul	t	: No skin irritation	
	us eye damage/eye ir es serious eye damage		
Comp	oonents:		
Solve	nt naphtha (petroleur	n), light aromatic:	
Speci		: Rabbit	
Metho Resul		: OECD Test Guideline 405 : No eye irritation	
Nony	Iphenol, ethoxylated:		
Speci	es	: Rabbit	
Metho Resul		OECD Test Guideline 405Irreversible effects on the eye	

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amitraz (ISO):

Species Result : Rabbit : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Solvent naphtha (petroleum), light aromatic:

: Buehler T	est
: Skin conta	act
: Guinea pi	g
: negative	
	: Buehler T : Skin conta : Guinea pi : negative

Nonylphenol, ethoxylated:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative
Test Type Exposure routes Species Result Remarks	: Based on data from similar materials

amitraz (ISO):

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Test Type Exposure routes Species Result	:	Not a skin sensitizer.

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 spermat gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive 	: O-

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	n cell mutagenicity - ssment	:	Positive result(stests in mamma	s) from in vivo heritable germ cell mutagenicity als
Nony	/Iphenol, ethoxylated:			
	otoxicity in vitro	:	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials 	
amit	raz (ISO):			
	otoxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test e
			Test Type: Chr Result: negative	omosome aberration test in vitro e
				A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e
II Carc	inogenicity			
	cause cancer.			
Com	ponents:			
Solv	ent naphtha (petroleu	m). li	ght aromatic:	
Spec		:	Mouse	
Appli	cation Route	:	Skin contact	
Expo Resu	osure time Ilt	÷	2 Years positive	
		-	-	
Carc ment	inogenicity - Assess-	:	Sufficient evide	nce of carcinogenicity in animal experiments
	raz (ISO):			
Spec	ties	:	Rat	
Appli	cation Route sure time	:	Oral	
Expo NOA	sure time	:	2 Years	
Resu		:	> 10.18 mg/kg negative	body weight
Spec	ies	:	Mouse	
Expo	sure time	:	2 Years	
LOAI		:	2.3 mg/kg body	weight
Resu Taro	et Organs	:	positive Liver, Stomach	
• • • • 9		•		

Reproductive toxicity

Not classified based on available information.

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Comp	oonents:		
Solve	ent naphtha (petroleu	m), light aromati	
	s on fertility	: Test Type: test Species: Ra	Reproduction/Developmental toxicity screening at Route: inhalation (vapour)
Effect ment	s on foetal develop-	Species: Ra	Route: inhalation (vapour)
amitra	az (ISO):		
	s on fertility	Species: Ra Application Fertility: NC	Three-generation reproduction toxicity study at Route: Oral DAEL: > 4.8 mg/kg body weight significant adverse effects were reported
Effect ment	s on foetal develop-	Species: Ra Application Developme	Embryo-foetal development at Route: Oral ntal Toxicity: NOAEL: 3 mg/kg body weight lo significant adverse effects were reported
		Species: Ra Application Developme	Embryo-foetal development abbit Route: Oral ntal Toxicity: NOAEL: 5 mg/kg body weight cts on foetal development

May cause drowsiness or dizziness.

Components:

Solvent naphtha (petroleum), light aromatic:

Assessment

: May cause drowsiness or dizziness.

STOT - repeated exposure

May cause damage to organs (Liver, Central nervous system) through prolonged or repeated exposure.

Components:

amitraz (ISO):

Target Organs	: Liver, Central nervous system
Assessment	: May cause damage to organs through prolonged or repeated
	exposure.

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-	ated dose toxicity ponents <u>:</u>			
		 .		
Specie LOAE Applic		: Ra : 5 : In		
amitra	az (ISO):			
Specie NOAE Applic Expos	es	: 3 : Oi : 90	ouse mg/kg al Days ver	
Expos		: O : 90	25 mg/kg	system, Liver
-	ation toxicity be fatal if swallowed a	nd enters	airways.	
<u>Comp</u>	oonents:			
The sigarde	ent naphtha (petroleu ubstance or mixture is d as if it causes a hur rience with human e	s known te nan aspir	o cause humar	n aspiration toxicity hazards or has to be re- azard.

Experience with human exposure

Components:

amitraz (ISO):

: Target Organs: Central nervous system

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Solvent naphtha (petroleum), light 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

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rsion	Revision Date: 28.09.2024		9S Number: 76330-00009	Date of last issue: 30.09.2023 Date of first issue: 02.11.2020
			Method: OECD Te	est Guideline 202
			Method. OLCD 10	
Toxicit plants	y to algae/aquatic	:	Exposure time: 96	Vater Accommodated Fraction
			mg/l Exposure time: 96	Vater Accommodated Fraction
	y to daphnia and other c invertebrates (Chron- ity)	:		magna (Water flea) Vater Accommodated Fraction
Nonyl	phenol, ethoxylated:			
	y to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 m S h on data from similar materials
	y to daphnia and other c invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
			Exposure time: 72 Method: OECD Te	
M-Facticity)	tor (Acute aquatic tox-	:	1	
Toxicit icity)	y to fish (Chronic tox-	:		
	y to daphnia and other c invertebrates (Chron- tity)	:		
M-Fact toxicity	tor (Chronic aquatic	:	10	

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 omitro				
	iz (ISO): iy to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.45 mg/l S h
	ty to daphnia and other cinvertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.035 mg/l 3 h
Toxicit plants	ty to algae/aquatic	:	NOEC(Pseudok mg/l Exposure time: 91	irchneriella subcapitata (green algae)): 0.04 I h
M-Fac icity)	tor (Acute aquatic tox-	:	10	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC: 0.00148 n Exposure time: 32 Species: Pimepha	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 2	
M-Fac toxicity	tor (Chronic aquatic /)	:	10	
Persis	stence and degradabili	ity		
<u>Comp</u>	onents:	-		
Solver	nt naphtha (petroleum), li	ght aromatic:	
Biodeç	gradability	:	Result: Inherently Biodegradation: 9 Exposure time: 25	94 %
Nonyl	phenol, ethoxylated:			
	gradability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Partitic	phenol, ethoxylated: on coefficient: n- ol/water	:	log Pow: 4.48	
amitra	az (ISO):			
Bioaco	cumulation	:		macrochirus (Bluegill sunfish) factor (BCF): 1,333

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	tion coefficient: n- nol/water	: log Pow: 5.5	
Mobi	ility in soil		
<u>Com</u>	ponents:		
Distri	r az (ISO): bution among environ- al compartments	: log Koc: 3.3	
••	r adverse effects ata available		
13. DISPO	OSAL CONSIDERATIO	NS	
Disp	osal methods		
_	e from residues	•	e of waste into sewer.
Conta	aminated packaging	: Empty contain dling site for re	accordance with local regulations. ers should be taken to an approved waste han- ecycling 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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic)
Class	:	3
Packing group	:	III
Labels	:	3
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 1993
Proper shipping name	:	Flammable liquid, n.o.s. (Solvent naphtha (petroleum), light aromatic)
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo aircraft)	:	366
Packing instruction (passen- ger aircraft)	:	355
IMDG-Codo		

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UN nu Propei	mber r shipping name	:	UN 1993 FLAMMABLE LIC (Solvent naphtha	QUID, N.O.S. (petroleum), light aromatic, amitraz (ISO))
Class Packing group Labels EmS Code Marine pollutant		:	3 III 3 F-E, <u>S-E</u> yes	

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Revision Date	:	28.09.2024
Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

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

Date format	:	dd.mm.yyyy		
Full text of other abbreviations				
ACGIH IN OEL	:	USA. ACGIH Threshold Limit Values (TLV) India. Permissible levels of certain chemical substances in		
		work environment.		
ACGIH / TWA IN OEL / TWA		8-hour, time-weighted average Time-Weighted Average Concentration (TWA) (8 hrs.)		
IN OEL / STEL		Short-term exposure Limit STEL (15 min)		

according to the Globally Harmonized System



Amitraz (12.5%) Immersion Formulation

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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 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; 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 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; 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 Recommendations 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 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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