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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Amitraz (5%) Formulation
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3 Skin irritation, Category 2 Eye irritation, Category 2 Skin sensitisation, Category 1 Germ cell mutagenicity, Category 1B Carcinogenicity, Category 1B Reproductive toxicity, Category 1B	 H226: Flammable liquid and vapour. H315: Causes skin irritation. H319: Causes serious eye irritation. H317: May cause an allergic skin reaction. H340: May cause genetic defects. H350: May cause cancer. H360F: May damage fertility.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure, Category 2 Aspiration hazard, Category 1	H373: May cause damage to organs through pro- longed or repeated exposure. H304: May be fatal if swallowed and enters air- ways.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.

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gory 1

Long-term (chronic) aquatic hazard, Category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :		
Signal word :	Danger	
Hazard statements :	H226 H304 H315 H317 H319 H336 H340 H350 H360F H373 H410	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. May damage fertility. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements :	Prevention	:
	P201 P210	Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P273 P280	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response:	
	P301 + P31	0 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P391	Collect spillage.
Precautionary statements :	P201 P210 P273 P280 Response: P301 + P31	 Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. 0 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label: Solvent naphtha (petroleum), light aromatic amitraz (ISO) Bis(2,6-diisopropylphenyl)carbodiimide

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.

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Vapours may form explosive mixture with air.

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	>= 70 - < 90
4-Nonylphenol, branched, ethoxylat- ed	127087-87-0	Acute Tox. 4; H302 Eye Irrit. 2; H319 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	>= 2.5 - < 10
Bis(2,6- diisopropylphenyl)carbodiimide	2162-74-5 218-487-5	Acute Tox. 4; H302 Repr. 1B; H360F STOT RE 1; H372 (Kidney, Heart, Gastrointestinal tract, Lymph nodes) Aquatic Chronic 4;	>= 1 - < 2.5





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11			H413	
Alter	native CAS Numbers	s for some regions		
Chem	nical name		Alternative CAS Number(s)	
4-Nor	nylphenol, branched,	ethoxylated	68412-54-4	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures General advice In the case of accident or if you feel unwell, seek medical ad-• vice immediately. When symptoms persist or in all cases of doubt seek medical advice. Protection of first-aiders First Aid responders should pay attention to self-protection, : and use the recommended personal protective equipment when the potential for exposure exists (see section 8). 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 contact, immediately flush eyes with plenty of water In case of eye contact : for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. 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. 4.2 Most important symptoms and effects, both acute and delayed Risks May be fatal if swallowed and enters airways. : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. May damage fertility. May cause damage to organs through prolonged or repeated

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				exposure.		
4.3 In	dicatio	on of any immediate	mec	lical attention and	I special treatment needed	
Т	Freatm	ent	:	Treat symptomati	cally and supportively.	
SEC	TION	5: Firefighting meas	sure	25		
5.1 Ex	xtingu	ishing media				
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistant to Carbon dioxide (C Dry chemical		
	Jnsuita nedia	ble extinguishing	:	High volume wate	er jet	
5.2 Sj	pecial	hazards arising from	the	substance or mix	xture	
	Specific ighting	e hazards during fire-	:	fire. Flash back possib Vapours may form	d water stream as it may scatter and spread ble over considerable distance. In explosive mixtures with air. Dustion products may be a hazard to health.	
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (NOx)		
5.3 A	dvice f	or firefighters				
	Special or firefi	protective equipment ghters	:		e, wear self-contained breathing apparatus. tective equipment.	
	Specific ods	extinguishing meth-	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area.		

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 pro- tective equipment recommendations (see section 8).	

6.2 Environmental precautions

Environmental precautions	:	Avoid release to the environment.	
		Prevent further leakage or spillage if safe to do so.	

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		barriers). Retain and dispo If spillage enters	g over a wide area (e.g. by containment or oil se of contaminated wash water. rivers or watercourses, inform the Environ- nergency telephone number 0800 807060).
6.3 Method	ds and material for co	ntainment and cleani	ng up
Methods for cleaning up : Non-sparki Soak up w Suppress (spray jet. For large s ment to ke be pumped Clean up r bent. Local or na posal of thi employed i mine which Sections 1		Soak up with iner Suppress (knock spray jet. For large spills, p ment to keep may be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the of mine which regul Sections 13 and	It absorbent material. down) gases/vapours/mists with a water provide dyking or other appropriate contain- terial from spreading. If dyked material can be recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	 If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment 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. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.

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Hygiene measures		flushing syste place. When u nated clothing The effective engineering c appropriate de industrial hygi	chemical is likely during typical use, provide eye ms and safety showers close to the working using do not eat, drink or smoke. Wash contami- before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.
7.2 Con	ditions for safe storage,	including any inc	ompatibilities
	quirements for storage as and containers	tightly closed. accordance w	erly labelled containers. Store locked up. Keep Keep in a cool, well-ventilated place. Store in <i>i</i> th the particular national regulations. Keep at and sources of ignition.
Ad	vice on common storage	Strong oxidizi Self-reactive s Organic perox Flammable so Pyrophoric liq Pyrophoric so Self-heating s Substances a flammable ga Explosives Gases	substances and mixtures kides blids uids lids substances and mixtures nd mixtures, which in contact with water, emit
7.3 Spe	cific 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)

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Bis(2,6- diiso- propylphenyl)carbodii mide	Workers	Inhalation	Long-term systemic effects	0.094 mg/m3



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		Workers	Skin cont	act	Long-term systemic effects	0.013 mg/kg bw/day
Π		Consumers	Inhalation		Long-term systemic effects	0.023 mg/m3
Π		Consumers	Skin contact		Long-term systemic effects	0.007 mg/kg bw/day
		Consumers	Skin conta	act	Acute systemic ef- fects	20 mg/kg bw/day
		Consumers	Ingestion		Long-term systemic effects	0.007 mg/kg bw/day
		Consumers	Ingestion		Acute systemic ef- fects	0.021 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
Bis(2,6-	Fresh water	0.0001 mg/l
diisopropylphenyl)carbodiimide		
	Marine water	0.00001 mg/l
	Intermittent use/release	0.001 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	5.461 mg/kg dry
		weight (d.w.)
	Soil	4.445 mg/kg dry
		weight (d.w.)

8.2 Exposure controls

Engineering measures

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

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

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

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a 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

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Respiratory protection		suits) to avoid Use appropri contaminated : If adequate lo	ocal exhaust ventilation is not available or expo-
ommended guidelines, use respirato Equipment should conform to BS EN			

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid yellow characteristic, aromatic, hydrocarbon-like No data available
рН	:	No data available
Melting point/freezing point	:	Not applicable
Initial boiling point and boiling	:	No data available
range Flash point	:	53 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	7 %(V)
Lower explosion limit / Lower flammability limit	:	0.8 %(V)
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	:	emulsifiable No data available No data available
Decomposition temperature	:	No data available

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Vis	Viscosity Viscosity, kinematic : N Explosive properties : N		ble	
Oxidizing properties		: The substance or mixture is not classified as oxidizing.		
Flamr	information nability (liquids) sular weight le size	Not applicableNot applicableNot applicable		

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

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

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

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Acute	Acute oral toxicity		Acute toxicity est Method: Calculat	imate: > 2,000 mg/kg ion method
Com	ponents:			
Solve	ent naphtha (petroleu	m), li	ght aromatic:	
	e oral toxicity		LD50 (Rat): > 5,0	000 mg/kg
Acute	Acute inhalation toxicity		LC50 (Rat): > 5.6 Exposure time: 4 Test atmosphere	h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
4-Noi	nylphenol, branched,	etho	xvlated:	
	oral toxicity		LD50 (Rat): > 30	0 - 2,000 mg/kg on data from similar materials
Acute	e dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg		2,000 mg/kg
amitr	az (ISO):			
	e oral toxicity	:	LD50 (Rat): > 40	0 mg/kg
			LD50 (Mouse): >	1,085 mg/kg
			LD50 (Guinea pig	g): > 400 mg/kg
Acute	inhalation toxicity	:	Remarks: No dat	a available
Acute	e dermal toxicity	:	LD50 (Rat): > 1,6	600 mg/kg
Bis(2	,6-diisopropylphenyl)	carb	odiimide:	
	oral toxicity	:	LD50 (Rat): > 30	0 - 2,000 mg/kg est Guideline 423
Acute	e dermal toxicity	:	Method: OECD T	000 mg/kg est Guideline 402 e substance or mixture has no acute dermal

Skin corrosion/irritation

Causes skin irritation.

Components:

Solvent naphtha (petroleum), light aromatic:

Species Method Result	: Rabbit
Method	: OECD Test Guideline 404
Result	: Skin irritation

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ar	mitraz (ISO):			
S R	pecies esult		:	Rabbit No skin irritation	
Bi	is(2,6-c	liisopropylphenyl)ca	arbo	odiimide:	
M	pecies lethod esult		: : :	Rabbit OECD Test Guide No skin irritation	line 404
		eye damage/eye irri serious eye irritation.	tatio	on	
<u>C</u> (ompon	ents:			
		naphtha (petroleum)), liç	ght aromatic:	
	pecies		:	Rabbit	
	lethod esult		÷	OECD Test Guide No eye irritation	line 405
	esuit		•	No eye imation	
4-	-Nonylp	henol, branched, et	ho	cylated:	
S	pecies		:	Rabbit	
R	esult		:	Irritation to eyes, r	eversing within 21 days
ar	mitraz (ISO):			
S	pecies		:	Rabbit	
R	esult		:	No eye irritation	
Bi	is(2,6-c	liisopropylphenyl)ca	arbo	odiimide:	
S	pecies		:	Rabbit	
M	lethod esult		÷	OECD Test Guide No eye irritation	line 405
	esuit		•	No eye imation	
R	espirat	ory or skin sensitis	atio	n	
-		sitisation se an allergic skin rea	ctio	n.	
R	espirat	ory sensitisation			
		ified based on availa	ole	Information.	
<u>C</u>	ompon	<u>ents:</u>			
S	olvent	naphtha (petroleum)), lig	ght aromatic:	
Te	est Typ	e	:	Buehler Test	
	xposure pecies	e routes	:	Skin contact	
· · · · · · · · · · · · · · · · · · ·	esult		•	Guinea pig negative	
				-	
4-	-Nonvir	henol branched et	ho	vlated [.]	

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Test Expos Resul Rema	sure routes	: Skin contac : negative	eat insult patch test (HRIPT) t ata from similar materials
Test	sure routes es	: Maximisatio : Dermal : Guinea pig : Sensitiser	on Test
Bis(2	,6-diisopropylphenyl)c	arbodiimide:	
Test	Гуре sure routes es od	: Maximisation : Skin contact : Guinea pig	
May o	a cell mutagenicity cause genetic defects. conents:		
	ent naphtha (petroleum	n), light aromati	C:
Geno	toxicity in vitro	Result: neg	
		Test Type: Result: pos	In vitro mammalian cell gene mutation test itive
Geno	toxicity in vivo	gonia Species: M	Route: Intraperitoneal injection
Germ sessn	cell mutagenicity- As- nent	: Positive resteres tests in mar	ult(s) from in vivo heritable germ cell mutagenicity mmals
4-Nor	nylphenol, branched, e	thoxylated:	
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
			DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) ative
amitr	az (ISO):		
	toxicity in vitro	: Test Type:	Bacterial reverse mutation assay (AMES)

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ersion)	Revision Date: 28.09.2024	SDS Number: 9373379-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
		Result: negative	9
		Test Type: In vi Result: negative	tro mammalian cell gene mutation test
		Test Type: Chro Result: negative	pmosome aberration test in vitro
			damage and repair, unscheduled DNA syn- alian cells (in vitro)
Bis(2	,6-diisopropylphenyl))carbodiimide:	
Geno	toxicity in vitro		erial reverse mutation assay (AMES) Test Guideline 471 e
			omosome aberration test in vitro Test Guideline 473 e
			tro mammalian cell gene mutation test Test Guideline 476 e
II Carci	inogenicity		
	cause cancer.		
<u>Com</u>	ponents:		
Solve	ent naphtha (petroleu	m), light aromatic:	
	I (I		
Speci	ies	: Mouse	
Appli	ies cation Route	: Skin contact	
Applio Expo	ies cation Route sure time	: Skin contact : 2 Years	
Appli	ies cation Route sure time	: Skin contact	
Applio Expos Resu	ies cation Route sure time	Skin contact2 Yearspositive	nce of carcinogenicity in animal experiments
Applie Expos Resu Carci ment	ies cation Route sure time It	 Skin contact 2 Years positive Sufficient evider 	nce of carcinogenicity in animal experiments
Applie Expos Resu Carci ment 4-Noi	ies cation Route sure time It nogenicity - Assess- nylphenol, branched, ies	 Skin contact 2 Years positive Sufficient evider 	nce of carcinogenicity in animal experiments
Applie Expos Resu Carci ment 4-Noi	ies cation Route sure time It nogenicity - Assess- nylphenol, branched, ies	: Skin contact : 2 Years : positive : Sufficient evider ethoxylated: : Rat : Ingestion	nce of carcinogenicity in animal experiments
Applia Expos Resu Carci ment 4-Noi Speci Applia Expos	ies cation Route sure time It nogenicity - Assess- nylphenol, branched, ies cation Route sure time	 Skin contact 2 Years positive Sufficient evider ethoxylated: Rat Ingestion 2 Years 	nce of carcinogenicity in animal experiments
Applia Expos Resu Carci ment 4-Noi Speci Applia Expos Resu	ies cation Route sure time It nogenicity - Assess- nylphenol, branched, ies cation Route sure time It	 Skin contact 2 Years positive Sufficient evider ethoxylated: Rat Ingestion 2 Years negative 	
Applia Expos Resu Carci ment 4-Noi Speci Applia Expos	ies cation Route sure time It nogenicity - Assess- nylphenol, branched, ies cation Route sure time It	 Skin contact 2 Years positive Sufficient evider ethoxylated: Rat Ingestion 2 Years negative 	nce of carcinogenicity in animal experiments
Applia Expos Resu Carci ment 4-Noi Speci Applia Expos Resu Resu	ies cation Route sure time It nogenicity - Assess- nylphenol, branched, ies cation Route sure time It	 Skin contact 2 Years positive Sufficient evider ethoxylated: Rat Ingestion 2 Years negative 	
Applia Expose Resu Carcii ment 4-Noi Speci Applia Expose Resu Rema amitr	ies cation Route sure time It nogenicity - Assess- nylphenol, branched, ies cation Route sure time It arks raz (ISO): ies	 Skin contact 2 Years positive Sufficient evider ethoxylated: Rat Ingestion 2 Years negative 	
Applia Expose Resu Carcii ment 4-Noi Speci Applia Expose Resu Rema amitr	ies cation Route sure time It nogenicity - Assess- nylphenol, branched, ies cation Route sure time It arks raz (ISO): ies	 Skin contact 2 Years positive Sufficient evider ethoxylated: Rat Ingestion 2 Years negative Based on data f Rat Oral 	
Applia Expose Resu Carcii ment 4-Noi Speci Applia Expose Resu Rema amitr	ies cation Route sure time It nogenicity - Assess- nylphenol, branched, ies cation Route sure time It arks raz (ISO): ies cation Route sure time	 Skin contact 2 Years positive Sufficient evider ethoxylated: Rat Ingestion 2 Years negative Based on data for the second second	rom similar materials

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Resul	t	: negative		
LOAE Resul	sure time L	: Mouse : 2 Years : 2.3 mg/kg boo : positive : Liver, Stomad		
May c	oductive toxicity damage fertility. oonents:			
Solve	ent naphtha (petroleui	m), light aromatic:		
	s on fertility	: Test Type: Re test Species: Rat	eproduction/Developmental toxicity screening oute: inhalation (vapour) ive	
Effect ment	s on foetal develop-	Species: Rat	nbryo-foetal development oute: inhalation (vapour) ive	
II amitra	az (ISO):			
Effect	s on fertility	Species: Rat Application R Fertility: NOA	nree-generation reproduction toxicity study oute: Oral EL: > 4.8 mg/kg body weight gnificant adverse effects were reported	
Effect	s on foetal develop-	Species: Rat Application R Development Remarks: No Test Type: Er Species: Rab Application R Development	al Toxicity: NOAEL: 3 mg/kg body weight significant adverse effects were reported nbryo-foetal development bit	
Bis(2	,6-diisopropylphenyl)	carbodiimide:		
	s on fertility	: Test Type: Ro test Species: Rat Application R	eproduction/Developmental toxicity screening oute: Ingestion D Test Guideline 421	

Result: positive

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Version 6.0	Revision Date: 28.09.2024	SDS Num 9373379-0		Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
		Specie Applic	ype: Fertilit es: Rat ation Route positive	-
Effe men	cts on foetal develop- t	test Specie Applic Metho	es: Rat ation Route	est Guideline 421
	roductive toxicity - As- sment			adverse effects on sexual function and fertil- nal experiments.
	PT - single exposure cause drowsiness or diz	ziness.		
<u>Con</u>	nponents:			
	vent naphtha (petroleur	n), light aro	matic:	
Asse	essment	: May c	ause drows	iness or dizziness.
May	PT - repeated exposure cause damage to organ	s through pr	olonged or	repeated exposure.
	nponents:			
	traz (ISO):	: Livor	Control nor	vous system
	get Organs essment		ause dama	vous system ge to organs through prolonged or repeated
Bis(2,6-diisopropylphenyl)	carbodiimic	le:	
Exp	osure routes	: Ingest	ion	
	get Organs essment			astrointestinal tract, Lymph nodes to organs through prolonged or repeated
/ 1001		expos		
Rep	eated dose toxicity			
<u>Con</u>	<u>nponents:</u>			
Solv	vent naphtha (petroleur	n), light aro	matic:	
		: Rat : 500 n : Ingest : 28 Da	ion	
'			-	

4-Nonylphenol, branched, ethoxylated:

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Species LOAEL Application Route Exposure time Remarks			Rat > 100 mg/kg Ingestion 90 Days Based on data fro	om similar materials
amitra	z (ISO):			
Specie		:	Mouse	
NOAEL		:	3 mg/kg	
Application Route Exposure time		:	Oral 90 Days	
Target Organs		:	Liver	
Specie	S	:	Dog	
NOAE	L	:	0.25 mg/kg	
	ation Route	:	Oral	
	ure time	:	90 Days	
Ilarget	Organs	:	Central nervous	system, Liver

Bis(2,6-diisopropylphenyl)carbodiimide:

Species NOAEL LOAEL Application Route Exposure time Method	: Rat
NOAEL	: 4 mg/kg
LOAEL	: 16 mg/kg
Application Route	: Ingestion
Exposure time	: 28 Days
Method	: OECD Test Guideline 407

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
ingoodon

: Target Organs: Central nervous system

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Amitraz (5%) Formulation

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SECTION 12: Ecological information

12.1 Toxicity

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	Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic	: EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l Exposure time: 96 h
plants	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
Toxicity to daphnia and other aquatic invertebrates (Chron-	: NOELR: 2.6 mg/l Exposure time: 21 d
ic toxicity)	Species: Daphnia magna (Water flea) Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211

4-Nonylphenol, branched, ethoxylated:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 0.1 - 1 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): > 0.1 - 1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	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 Remarks: Based on data from similar materials

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rsion	Revision Date: 28.09.2024		9S Number: 73379-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
M-Fac icity)	tor (Acute aquatic tox-	:	1	
Toxicit icity)	y to fish (Chronic tox-	:		
	y to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 28 Species: Mysidop	
M-Fac toxicity	tor (Chronic aquatic ′)	:	10	
amitra	z (ISO):			
	y to fish	:	LC50 (Lepomis m Exposure time: 90	acrochirus (Bluegill sunfish)): 0.45 mg/l 3 h
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 44	agna (Water flea)): 0.035 mg/l 3 h
Toxicit plants	y to algae/aquatic	:	NOEC (Pseudoki mg/l Exposure time: 9	rchneriella subcapitata (green algae)): 0.0 h
M-Fac icity)	tor (Acute aquatic tox-	:	10	
Toxicit icity)	y to fish (Chronic tox-	:	NOEC: 0.00148 r Exposure time: 32 Species: Pimepha	
	y to daphnia and other c invertebrates (Chron- city)	:	NOEC: 0.0011 m Exposure time: 2 Species: Daphnia	
M-Fac toxicity	tor (Chronic aquatic ′)	:	10	
Bis(2,	6-diisopropylphenyl)c			
Toxicit	y to fish	:	Exposure time: 90 Method: OECD T	
	y to daphnia and other c invertebrates	:	Exposure time: 48 Method: OECD T	
Toxicit	y to algae/aquatic	:	ErC50 (Desmode	smus subspicatus (green algae)): > 1 mg/

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plants		M R N E	emarks: No toxi OEC (Desmode xposure time: 72	est Guideline 201 city at the limit of solubility smus subspicatus (green algae)): > 1 mg/l 2 h
Toxici	ty to microorganisms	: E(E;	C50 : > 1,000 m xposure time: 3	
12.2 Persi	stence and degradab	ility		
<u>Comp</u>	oonents:			
	nt naphtha (petroleur gradability	: R Bi		
	ylphenol, branched,		ated:	
Biode	gradability			y biodegradable. on data from similar materials
Bis(2	,6-diisopropylphenyl)	carbodi	iimide:	
Biode	gradability	Bi E:	iodegradation: 3 xposure time: 28	
12.3 Bioad	cumulative potential			
Comp	oonents:			
	ylphenol, branched,	-		
octan	on coefficient: n- ol/water	: lo	g Pow: < 4	
	az (ISO): cumulation			s macrochirus (Bluegill sunfish) factor (BCF): 1,333

Partition coefficient: n-	:	log Pow: 5.5	

octanol/water Bis(2,6-diisopropylphenyl)carbodiimide:

Bioaccumulation	:	Bioconcentration factor (BCF): > 500
Partition coefficient: n- octanol/water	:	log Pow: > 6.2

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12.4 Mobility in soil

Components:

amitraz (ISO):

Distribution among environ- : log Koc: 3.3 mental compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment :

: 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.

12.6 Other adverse effects

|--|

Endocrine disrupting poten- tial	:	This substance/mixture contains components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).
Components:		

4-Nonylphenol, branched, ethoxylated:

Endocrine disrupting poten- tial	:	The substance is considered to have endocrine disrupting properties according to UK REACH Article 57(f) for environment
-------------------------------------	---	---

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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 expose 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

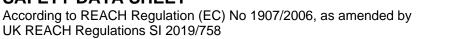
14.1 UN number

ADN



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Versic 6.0	on	Revision Date: 28.09.2024		DS Number: 73379-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021
	ADR		:	UN 3295	
	RID		:	UN 3295	
I	MDG		:	UN 3295	
1/	ΑΤΑ		:	UN 3295	
14.2 L	JN pro	oper shipping name			
A	ADN		:	HYDROCARBON	IS, LIQUID, N.O.S.
A	ADR		:	HYDROCARBON	IS, LIQUID, N.O.S.
R	RID		:	HYDROCARBON	NS, LIQUID, N.O.S.
I	MDG		:	HYDROCARBON (amitraz (ISO))	NS, LIQUID, N.O.S.
I/	ΑΤΑ		:	Hydrocarbons, lic	quid, n.o.s.
14.3 T	Fransp	oort hazard class(es)			
				Class	Subsidiary risks
А			:	3	
А	ADR		:	3	
R	RID		:	3	
II	MDG		:	3	
L/	ΑΤΑ		:	3	
14.4 F	Packin	ig group			
	ADN				
P C H	Packing Classifi	g group cation Code Identification Number	: :	III F1 30 3	
P C F L	Classifi Iazard .abels	g group cation Code Identification Number restriction code	:	III F1 30 3 (D/E)	
P C H	Classifi	g group cation Code Identification Number	:	III F1 30 3	
P L	MDG Packing Labels EmS C	g group ode	:	III 3 F-E, S-D	
1/	ATA ((Cargo)			





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Vers 6.0	sion	Revision Date: 28.09.2024		DS Number: 73379-00009	Date of last issue: 06.04.2024 Date of first issue: 27.08.2021	
	Packin aircraft	g instruction (cargo	:	366		
	Packin	g instruction (LQ)	:	Y344		
		g group	:			
	Labels		:	Flammable Liquid	ds	
IATA (Passenger)						
Packing instruction (passen- ger aircraft)		:	355			
		g instruction (LQ)	:	Y344		
	Packing group		:	III		
	Labels		:	Flammable Liquid	ds	
14.5 Environmental hazards						
	ADN Enviroi	nmentally hazardous	:	yes		
	ADR					
		nmentally hazardous	:	yes		
	RID Enviroi	nmentally hazardous	:	yes		
	IMDG Marine	pollutant		ves		
		•	•	,00		
14.6	•	al precautions for use				
	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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
UK REACH List of restrictions (Annex 17)	
	Number on list 28: Solvent naphtha (petroleum), light aromatic
	Number on list 29: Solvent naphtha (petroleum), light aromatic
	Number on list 46a.: 4-Nonylphenol, branched, ethoxylated

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			Number on list 4 branched, ethox	46b: 4-Nonylphenol, xylated
EACH List of restriction	ns (Annex 17)		here according to in the regulation use/purpose or restriction. Pleas tions in correspondetermine wheth cable to the place	mixture(s) are listed to their appearance i, irrespective of their the conditions of the se refer to the condi- onding Regulation to her an entry is appli- cing on the market or
		ר :		branched, ethoxylat-
			Not applicable	
lation (EC) on substar	nces that deplete the ozor	ne :	Not applicable	
	ces subject to authorisation	on :	4-Nonylphenol, ed	branched, ethoxylat-
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation			amitraz (ISO) 4-Nonylphenol, ed	branched, ethoxylat-
rol of Major Accident H	lazards Regulations 2015	5 (COMA		
	FLAMMABLE LIC	UIDS	Quantity 1 5,000 t	Quantity 2 50,000 t
	ENVIRONMENTA HAZARDS	۸L	100 t	200 t
	gasolines and nap (b) kerosenes (ind fuels), (c) gas oils ing diesel fuels, h heating oils and g blending streams heavy fuel oils (e) tive fuels serving purposes and with properties as rega flammability and e mental hazards as	ohthas, cluding je (includ- ome as oil (,(d) alterna- the same n similar ards environ- s the	e	25,000 t
	28.09.2024 REACH List of restriction REACH Candidate list of ern (SVHC) for Author Persistent Organic Poli lation (EU) 2019/1021 lation (EC) on substant REACH List of substant ex XIV) Export and import of hat med Consent (PIC) Re	28.09.2024 9373379-00009 EEACH List of restrictions (Annex 17) EEACH Candidate list of substances of very high ern (SVHC) for Authorisation Persistent Organic Pollutants Regulations (retai lation (EU) 2019/1021 as amended for Great B lation (EC) on substances that deplete the ozor EEACH List of substances subject to authorisatio EXEACH List of substances subject to authorisatio EEACH List of substances subject to authorisatio EXEACH List of substances subject to authorisatio EXEACH List of substances subject to authorisatio EEACH List of substances subject to authorisatio EEACH List of substances subject to authorisatio EXEACH List of sub	28.09.2024 9373379-00009 Date of REACH List of restrictions (Annex 17) REACH Candidate list of substances of very high ern (SVHC) for Authorisation : Persistent Organic Pollutants Regulations (retained ilation (EC) on substances that deplete the ozone ex XIV) : EXEACH List of substances subject to authorisation ex XIV) : Export and import of hazardous chemicals - Prior med Consent (PIC) Regulation : Itol of Major Accident Hazards Regulations 2015 (COMA FLAMMABLE LIQUIDS ENVIRONMENTAL HAZARDS Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including if fuels), (c) gas oils (including diseel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the sam purposes and with similar properties as regards flammability and environmental hazards as the products referred to in	28.09.2024 9373379-00009 Date of first issue: 27.08 REACH List of restrictions (Annex 17) Number on list 4 branched, ethors in correspination of the regulation in the regulation in the regulation use/purpose or restriction. Plea attions in correspinations (EACH Candidate list of substances of very high end, ed : 4-Nonylphenol, ed Persistent Organic Pollutants Regulations (retained) ilation (EC) on substances that deplete the ozone induction (EC) on substances subject to authorisation in correspination ex XIV) : Not applicable REACH List of substances subject to authorisation ex XIV) : 4-Nonylphenol, ed Risport and import of hazardous chemicals - Prior med Consent (PIC) Regulation : amitraz (ISO) 4-Nonylphenol, ed rol of Major Accident Hazards Regulations 2015 (COMAH) Quantity 1 FLAMMABLE LIQUIDS 5,000 t ENVIRONMENTAL HAZARDS 100 t HAZARDS 2,500 t Petroleum products: (a) gasoils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels, (c) gas oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards finanmability and environmental hazards as the products referred to in

Other regulations:

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Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

Eye Irrit.

Muta.

Flam. Liq.

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.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
H340	:	May cause genetic defects.
H350	:	May cause cancer.
H360F	:	May damage fertility.
H372	:	Causes damage to organs through prolonged or repeated
		exposure.
H373	:	May cause damage to organs through prolonged or repeated
		exposure.
H400	:	Very toxic to aquatic life.
H410		Very toxic to aquatic life with long lasting effects.
H411		Toxic to aquatic life with long lasting effects.
H413	:	May cause long lasting harmful effects to aquatic life.
11413	•	May cause long lasting harman cheets to aquate life.
Full text of other abbreviation	ons	
Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	
Asp. Tox.		Aspiration hazard
Carc.	:	Carcinogenicity
	•	Carolinogeniolty

Eye irritation

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According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Repr. Skin I Skin S STOT STOT	rrit. Sens. ⊺ RE		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

Classification of the	e mixture:	Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Muta. 1B	H340	Calculation method

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Carc.	1B	H350	Calculation method
Repr.	1B	H360F	Calculation method
STOT	SE 3	H336	Calculation method
STOT	RE 2	H373	Calculation method
Asp.	Tox. 1	H304	Based on product data or assessment
Aquat	tic Acute 1	H400	Calculation method
Aquat	tic Chronic 1	H410	Calculation method

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

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

GB / EN