

Version 4.1	Revision Date: 13.09.2024	-	S Number: 66121-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
Section 1	dentification			
Produ	uct identifier	:	Deltamethrin (2.5	5%) Formulation
Reco	mmended use of the ch	em	ical and restriction	ons on use
	mmended use ictions on use	:	Veterinary produ Not applicable	ct
Manu	facturer or supplier's d	etai	ls	
Comp	bany	:	MSD	
Addre	ess	:	50 Tuas West Dr Singapore - Sing	
Telep	hone	:	+1-908-740-4000	)
Emer	gency telephone number	:	65 6697 2111 (2	4/7/365)
E-mai	il address	:	EHSDATASTEW	/ARD@msd.com
Section 2:	Hazard identification			
Class	sification of the substan	ice	or mixture	
Flam	mable liquids	:	Category 3	
Skin d	corrosion/irritation	:	Category 2	
Serior tation	us eye damage/eye irri-	:	Category 1	
Skin s	sensitisation	:	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 (Oral)	:	Category 2 (Central nervous system, Immune system)
Specific target organ toxicity - repeated exposure (Inhala- tion)	:	Category 2 (Central nervous system)
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Aspira	ation hazard	: Category 1	
Short hazar	-term (acute) aquatic d	: Category 1	
Long- hazar	term (chronic) aquatic	: Category 1	
GHS	Label elements, inclue	ling precautionary s	tatements
Haza	rd pictograms		
Signa	l word	: Danger	
Haza	rd statements	H304 May be f H315 Causes s H317 May caus H318 Causes s H336 May caus H340 May caus H350 May caus H361 Suspecte H373 May caus Immune syster swallowed. H373 May caus through prolong	se an allergic skin reaction. serious eye damage. se drowsiness or dizziness. se genetic defects.
Preca	autionary statements	P202 Do not ha and understood P210 Keep aw and other igniti P233 Keep cor P241 Use expl ment. P242 Use non- P243 Take acti P260 Do not bu P264 Wash ski P271 Use only P272 Contamir the workplace. P273 Avoid rel	ay from heat, hot surfaces, sparks, open flame on sources. No smoking. ntainer tightly closed. osion-proof electrical/ ventilating/ lighting equip



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		tion/ face prote	ection/ hearing protection.
		<b>Response:</b>	E SWALLOWED: Immediately call a POISON

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

 $\mathsf{P333}$  +  $\mathsf{P313}$  If skin irritation or rash occurs: Get medical advice/ attention.

P391 Collect spillage.

#### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Vapours may form explosive mixture with air.

#### Section 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
Benzenesulfonic acid, C10-13-alkyl derivs.,	Not Assigned	>= 3 -< 10
calcium salts		
4-Nonylphenol, branched, ethoxylated	127087-87-0	>= 3 -< 10
deltamethrin (ISO)	52918-63-5	>= 2.5 -< 3
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 1 -< 2.5

#### Section 4: First-aid measures

### Description of necessary first-aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-



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In cas	aled se of skin contact se of eye contact allowed	advice. If inhaled, reme Get medical at In case of cont for at least 15 and shoes. Get medical at Wash clothing Thoroughly cle In case of cont for at least 15 If easy to do, re Get medical at If swallowed, D If vomiting occ Call a physicia Rinse mouth th	ns persist or in all cases of doubt seek medic ove to fresh air. tention. act, immediately flush skin with plenty of wate minutes while removing contaminated clothing tention. before reuse. an shoes before reuse. act, immediately flush eyes with plenty of wat minutes. emove contact lens, if worn. tention immediately. DO NOT induce vomiting. urs have person lean forward. n or poison control centre immediately. horoughly with water.
Most	important cumptom		thing by mouth to an unconscious person.
Risks		s and effects, both a	-
	ction of first-aiders	Causes skin in May cause an Causes seriou May cause dro May cause ger May cause ger May cause car Suspected of o May cause dar exposure if sw May cause dar exposure if inh This product co Pyrethroid pois or organophos : First Aid respo and use the re	allergic skin reaction. s eye damage. wsiness or dizziness. hetic defects. hcer. lamaging fertility or the unborn child. mage to organs through prolonged or repeate allowed. mage to organs through prolonged or repeate
Indic	ation of any immedia	•	and special treatment needed
Treat	-		atically and supportively.

Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical





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Unsi med	uitable extinguishing ia	:	High volume wate	er jet
Spe	cial hazards arising from	n th	e substance or m	ixture
Spec fight	cific hazards during fire- ing	:	fire. Flash back possit Vapours may forr	d water stream as it may scatter and spread ble over considerable distance. n explosive mixtures with air. bustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides (I Bromine compour Sulphur oxides Metal oxides	
Spe	cial protective actions f	or fi	ire-fighters	
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.
Spec ods	cific extinguishing meth-	:	cumstances and tuse water spray to	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 d
Section (	6: Accidental release m	eas	ures	
	precautions, protective onal precautions	e eq :	Remove all sourc Use personal pro Follow safe hand	
	nental precautions ronmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or o se of contaminated wash water. should be advised if significant spillages
	and materials for contanods for cleaning up	ainn :	Non-sparking too Soak up with iner Suppress (knock spray jet.	<b>up</b> Is should be used. t absorbent material. down) gases/vapours/mists with a water rovide dyking or other appropriate contain-



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		be pumped, sto Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and	aterial from spreading. If dyked material can bre recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items a cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

### Section 7: Handling and storage

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 :	
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 as-
	sessment
	Non-sparking tools should be used.
	Keep container tightly closed.
	Keep away from heat, hot surfaces, sparks, open flames and
	other ignition sources. No smoking.
	Take precautionary measures against static discharges.
	Do not eat, drink or smoke when using this product.
	Take care to prevent spills, waste and minimize release to the
	environment.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye
,,,	flushing systems and safety showers close to the working
	place.
	When using do not eat, drink or smoke.
	Contaminated work clothing should not be allowed out of the
	workplace.
	Wash contaminated clothing before re-use.
	The effective operation of a facility should include review of
	engineering controls, proper personal protective equipment,
	appropriate degowning and decontamination procedures,
	industrial hygiene monitoring, medical surveillance and the
	use of administrative controls.
Conditions for safe storage in	cluding any incompatibilities

### Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Keep in properly labelled containers.



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Mater	ials to avoid	Store in accorda Keep away from Do not store wit Self-reactive su Organic peroxid Oxidizing agent Flammable gas Pyrophoric liqui Pyrophoric solic	sed. well-ventilated place. ance with the particular national regulations. In heat and sources of ignition. In the following product types: bstances and mixtures les s es ds ls ostances and mixtures

#### Section 8: Exposure controls/personal protection

#### **Control parameters**

#### Occupational Exposure Limits

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/m3 (total hydrocarbon vapor)	ACGIH
deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
	Further inform	ation: DSEN, Sk	in	
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal
2,6-Di-tert-butyl-p-cresol	128-37-0	PEL (long term)	10 mg/m3	SG OEL
		TWA (Inhal- able fraction and vapor)	2 mg/m3	ACGIH

Appropriate engineering control measures

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



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ment.

Individual protection measured	sures	s, such as personal protective equipment (PPE)
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.
Skin protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand 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.

### Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	4 - 5
Melting point/freezing point	:	< -5 °C
Initial boiling point and boiling range	:	No data available
• • •		No data available 40 °C
range	:	
range Flash point	:	40 °C No data available
range Flash point Evaporation rate	:	40 °C No data available





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	r explosion limit / Upper nability limit	:	No data available	)
	r explosion limit / Lower nability limit	:	No data available	
Vapo	ur pressure	:	No data available	)
Relati	ive vapour density	:	No data available	)
Relati	ive density	:	No data available	)
Densi	ity	:	0.909 - 0.927 g/c	m³ (20 °C)
	ility(ies) ater solubility	:	partly miscible	
	ion coefficient: n- ol/water	:	Not applicable	
	ignition temperature	:	No data available	)
Deco	mposition temperature	:	No data available	)
Visco Vis	sity scosity, kinematic	:	No data available	)
Explo	sive properties	:	Not explosive	
Oxidiz	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Moleo	cular weight	:	No data available	
	le characteristics le size	:	Not applicable	

### 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 vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

### Section 11: Toxicological information

Information on likely routes of : Inhalation



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expos	sure	Skin contact Ingestion Eye contact	
	e toxicity assified based on ava		
<u>Produ</u> Acute	uct: oral toxicity	: Acute toxicity Method: Calcu	estimate: > 2,000 mg/kg Ilation method
Acute	inhalation toxicity	: Acute toxicity Exposure time Test atmosphe Method: Calcu	ere: dust/mist
Comp	oonents:		
Solve	ent naphtha (petrole	um), light aromatic:	
Acute	oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > Exposure time Test atmosphe	e: 4 h
Acute	dermal toxicity	: LD50 (Rabbit)	: > 2,000 mg/kg
Benz	enesulfonic acid. C1	0-13-alkyl derivs., ca	alcium salts:
	oral toxicity	: LD50 (Rat): 4,	
Acute	dermal toxicity		2,000 mg/kg D Test Guideline 402 ed on data from similar materials
4-Nor	ylphenol, branched	, ethoxylated:	
Acute	oral toxicity	: LD50 (Rat): >	2,000 mg/kg
delta	methrin (ISO):		
	oral toxicity	: LD50 (Rat): 66	6.7 mg/kg
		LD50 (Rat): 9	- 139 mg/kg
		LD50 (Mouse)	: 19 - 34 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 0. Exposure time Test atmosphe	e: 2 h
Acuto	dermal toxicity	: LD50 (Rabbit)	: 2 000 mg/kg



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				LD50 (Rat): > 800	mg/kg
		oxicity (other routes of stration)	:	LD50 (Rat): 2.5 m Application Route	
				LD50 (Mouse): 10 Application Route	
	2,6-Di-1	ert-butyl-p-cresol:			
	Acute c	oral toxicity	:	LD50 (Rat): > 6,00 Method: OECD Te	
	Acute c	lermal toxicity	:	LD50 (Rat): > 2,00 Method: OECD Te Assessment: The toxicity	
		orrosion/irritation			
		onents:			
-					
	Solven Species	t naphtha (petroleum	), II(	ght aromatic: Rabbit	
	Method		÷	OECD Test Guide	line 404
I	Result		:	Skin irritation	
I	Benzer	nesulfonic acid, C10-1	3-a	lkyl derivs., calciu	um salts:
	Species		:	Rabbit	
	Method Result		:	OECD Test Guide Skin irritation	line 404
4	4-Nony	Iphenol, branched, et	ho	xylated:	
	Species		:	Rabbit	
	Method Result		÷	OECD Test Guide No skin irritation	line 404
	Remark	<s< td=""><td>:</td><td></td><td>m similar materials</td></s<>	:		m similar materials
(	deltam	ethrin (ISO):			
	Species Result	5	:	Rabbit No skin irritation	
:	2,6-Di-1	ert-butyl-p-cresol:			
:	Species	3	:	Rabbit	
	Method		:	OECD Test Guide	line 404
	Result Remarł	<s< td=""><td>:</td><td>No skin irritation Based on data fro</td><td>m similar materials</td></s<>	:	No skin irritation Based on data fro	m similar materials



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	ous eye damage/eye es serious eye damag		ion		
<u>Com</u>	ponents:				
Solve	ent naphtha (petrole	um), li	ght aromatic:		
Spec	ies	:	Rabbit		
Resu		:	No eye irritatior		
Meth	od	:	OECD Test Guideline 405		
Benz	enesulfonic acid, C1	10-13-	alkyl derivs., cal	cium salts:	
Spec	ies	:	Rabbit		
Resu	llt	:	Irreversible effe	ects on the eye	
Meth	od	:	OECD Test Gu	ideline 405	
4-No	nylphenol, branched	l, etho	xylated:		
Spec	ies	:	Rabbit		
Resu	llt	:	No eye irritatior		
Meth		:	OECD Test Gu		
Rema	arks	:	Based on data	from similar materials	

### deltamethrin (ISO):

Species	:	Rabbit
Result	:	Moderate eye irritation

#### 2,6-Di-tert-butyl-p-cresol:

	Rabbit No eye irritation
Method :	OECD Test Guideline 405 Based on data from similar materials

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

### **Respiratory sensitisation**

Not classified based on available information.

### Components:

#### Solvent naphtha (petroleum), light aromatic:

: Buehler Test
: Skin contact
: Guinea pig
: negative

#### Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Test Type	:	Magnusson-Kligman-Test





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_			
	sure routes	: Skin contact	
Speci Metho		: Guinea pig : OECD Test G	uideline 406
Rema			a from similar materials
4-Nor	ylphenol, branched,	ethoxylated:	
Test 1	Type	: Maximisation	Test
	sure routes	: Skin contact	
Speci		: Guinea pig	
Resul		: negative	
Rema	rks	: Based on data	a from similar materials
deltar	nethrin (ISO):		
Test 7		: Maximisation	Test
	sure routes	: Dermal	
Speci		: Guinea pig	
Resul	τ	: negative	
Test 1			t insult patch test (HRIPT)
	sure routes	: Dermal	
Speci		: Humans	
Resul	t	: positive	
2,6-Di	i-tert-butyl-p-cresol:		
Test 1	Гуре	: Human repeat	t insult patch test (HRIPT)
	sure routes	: Skin contact	
Speci		: Humans	
Resul	t	: negative	
Germ	cell mutagenicity		
May c	ause genetic defects.		
<u>Comp</u>	oonents:		
	nt naphtha (petroleu		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: In Result: positiv	vitro mammalian cell gene mutation test e
Geno	toxicity in vivo		ter chromatid exchange analysis in spermat
		gonia Species: Mous	20
			bute: Intraperitoneal injection
		Result: positiv	
	cell mutagenicity -	: Positive result tests in mamm	(s) from in vivo heritable germ cell mutageni





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Benzo	enesulfonic acid, C1	0-13-alkyl derivs., cal	cium salts:
Geno	toxicity in vitro	Method: Directi Result: negative	terial reverse mutation assay (AMES) ve 67/548/EEC, Annex, B.13/14 e d on data from similar materials
4-Nor	nylphenol, branched	l, ethoxylated:	
Geno	toxicity in vitro	Method: OECD Result: negative	terial reverse mutation assay (AMES) Test Guideline 471 e d on data from similar materials
			omosome aberration test in vitro
		Method: OECD Result: negative	Test Guideline 473
			tro mammalian cell gene mutation test
		Method: OECD Result: negative	Test Guideline 476
delta	methrin (ISO):		
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
		Test Type: DN/ Test system: Est Result: negative	scherichia coli
			omosomal aberration hinese hamster ovary cells e
		Test system: C	tro mammalian cell gene mutation test hinese hamster lung cells LOAEL: 20 mg/kg
Geno	toxicity in vivo	: Test Type: Micr Species: Mouse Application Rou Result: negative	e ute: Oral
		Test Type: dom Species: Mouse Application Rou Result: negative	ute: Oral
		Test Type: siste Species: Mouse	er chromatid exchange assay e
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		Cell type: Bone marrow Application Route: Oral	
		Result: negative	
2,6-D	i-tert-butyl-p-cresol:		
Geno	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay ( Result: negative	AMES)
		Test Type: In vitro mammalian cell gene muta Result: negative	tion test
		Test Type: Chromosome aberration test in vit Result: negative	ro
Geno	otoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian b cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion Result: negative	oone-marrow
Carci	inogenicity		
	inogenicity cause cancer.		
May o	cause cancer.		
May o <u>Com</u> j	cause cancer. ponents:	) light gromatic:	
May o <u>Com</u> Solve	cause cancer. ponents: ent naphtha (petroleu	_	
May o <u>Com</u> Solve Speci	cause cancer. ponents: ent naphtha (petroleu ies	: Mouse	
May o <u>Com</u> Solve Speci Applie	cause cancer. ponents: ent naphtha (petroleu	_	
May o <u>Com</u> Solve Speci Applie	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time	: Mouse : Skin contact	
May o <u>Com</u> Solve Speci Applie Expos Resu	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess-	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> </ul>	al experiments
May o <u>Com</u> Solve Speci Applie Expos Resu Carci ment	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess-	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> </ul>	al experiments
May of Comp Solve Specia Applie Expos Resu Carci ment <b>delta</b>	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO):	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in animal</li> </ul>	al experiments
May of Comp Solve Speci Applie Expos Resu Carci ment <b>delta</b> Speci Applie	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in anima</li> <li>Mouse, male and female</li> <li>oral (feed)</li> </ul>	al experiments
May of Comp Solve Speci Applie Expos Resu Carci ment delta Speci Applie Expos	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in anima</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> </ul>	al experiments
May of Comp Solve Speci Applie Expos Resu Carci ment delta Speci Applie Expos NOAl	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time EL	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in anima</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body weight</li> </ul>	al experiments
May of Comp Solve Speci Applie Expos Resu Carci ment delta Speci Applie Expos NOAI LOAE	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time EL EL	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in anima</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body weight</li> <li>4 mg/kg body weight</li> </ul>	al experiment
May of Comp Solve Speci Applie Expos Resu Carci ment delta Speci Applie Expos NOAL LOAE Resu	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time EL EL	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in anima</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body weight</li> </ul>	al experiments
May of Comp Solve Speci Applie Expo: Resu Carci ment delta Speci Applie Expo: NOAI LOAE Resu Targe	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time EL EL It et Organs ies	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in animative</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body weight</li> <li>4 mg/kg body weight</li> <li>positive</li> <li>Lymph nodes</li> <li>Rat, male and female</li> </ul>	al experiments
May of Comp Solve Speci Applie Expos Resu Carci ment delta Speci Applie Expos NOAI LOAE Resu Targe	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time EL EL It et Organs ies cation Route	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in animative</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body weight</li> <li>4 mg/kg body weight</li> <li>positive</li> <li>Lymph nodes</li> <li>Rat, male and female</li> <li>oral (feed)</li> </ul>	al experiments
May of Comp Solve Speci Applie Expo: Resu Carci ment delta Speci Applie Expo: NOAI LOAE Resu Targe	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time EL EL It et Organs ies cation Route sure time	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in animative</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body weight</li> <li>4 mg/kg body weight</li> <li>positive</li> <li>Lymph nodes</li> <li>Rat, male and female</li> </ul>	al experiments
May of <u>Com</u> Solve Speci Applie Expose Resu Carci ment <b>delta</b> Speci Applie Expose NOAI LOAE Resu Targe Speci Applie Expose	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time EL EL It et Organs ies cation Route sure time It	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in animal</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body weight</li> <li>4 mg/kg body weight</li> <li>positive</li> <li>Lymph nodes</li> <li>Rat, male and female</li> <li>oral (feed)</li> <li>2 Years</li> </ul>	al experiments
May of Comp Solve Speci Applie Expos Resu Carci ment delta Speci Applie Expos NOAL LOAE Resu Targe Speci Applie Expos Resu Speci Applie	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time EL EL It et Organs ies cation Route sure time It ies cation Route sure time It ies cation Route	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in anima</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body weight</li> <li>4 mg/kg body weight</li> <li>positive</li> <li>Lymph nodes</li> <li>Rat, male and female</li> <li>oral (feed)</li> <li>2 Years</li> <li>negative</li> <li>Dog, male and female</li> <li>oral (feed)</li> </ul>	al experiments
May of Comp Solve Speci Applie Expos Resu Carci ment delta Speci Applie Expos NOAL LOAE Resu Targe Speci Applie Expos Resu Speci Applie	cause cancer. ponents: ent naphtha (petroleu ies cation Route sure time It nogenicity - Assess- methrin (ISO): ies cation Route sure time EL EL EL It et Organs ies cation Route sure time It ies cation Route sure time It	<ul> <li>Mouse</li> <li>Skin contact</li> <li>2 Years</li> <li>positive</li> <li>Sufficient evidence of carcinogenicity in anima</li> <li>Mouse, male and female</li> <li>oral (feed)</li> <li>104 weeks</li> <li>8 mg/kg body weight</li> <li>4 mg/kg body weight</li> <li>positive</li> <li>Lymph nodes</li> <li>Rat, male and female</li> <li>oral (feed)</li> <li>2 Years</li> <li>negative</li> <li>Dog, male and female</li> </ul>	al experiments



ersion .1	Revision Date: 13.09.2024	SDS Number: 2656121-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
Result	t	: negative	
Specie Applic	ation Route ure time	: Rat : Ingestion : 22 Months : negative	
-	oductive toxicity	lity or the unborn ch	nild.
<u>Comp</u>	onents:		
Solve	nt naphtha (petroleu	m), light aromatic:	
Effects	s on fertility	test Species: Rat	oute: inhalation (vapour)
Effects ment	s on foetal develop-	Species: Rat	oute: inhalation (vapour)
4-Non	ylphenol, branched,	ethoxylated:	
Repro sessm	ductive toxicity - As- ient		ce of adverse effects on sexual function and or on development, based on animal experimer
deltar	nethrin (ISO):		
Effects	s on fertility	Species: Rat Application R Early Embryc weight Symptoms: N	nree-generation reproduction toxicity study coute: oral (feed) onic Development: NOAEL: 50 mg/kg body lo effects on fertility, Embryo-foetal toxicity gnificant toxicity observed in testing
		Species: Rat Application R Early Embryc weight	
			, male



sion	Revision Date: 13.09.2024	SDS Number 2656121-000	
		Target Or	gans: Testes
Effects on foetal develop- ment		Species: I Applicatio Developm Result: Sk	: Development Mouse n Route: oral (gavage) eental Toxicity: LOAEL: 1 mg/kg body weight keletal malformations Maternal toxicity observed.
		Species: I Developm	: Development Rat, female eental Toxicity: NOAEL: 10 mg/kg body weight s: No effects on foetal development
		Species: I Applicatio Developm	e: Development Rabbit, female n Route: oral (gavage) nental Toxicity: NOAEL: 16 mg/kg body weight s: No effects on foetal development
Repro sessn	oductive toxicity - As- nent		dence of adverse effects on sexual function and nd/or on development, based on animal experiment
2.6-D	i-tert-butyl-p-cresol:		
	s on fertility	Species: I	n Route: Ingestion
Effect ment	s on foetal develop-	Species: I	n Route: Ingestion
STOT	- single exposure		
	ause drowsiness or di	ziness.	
<u>Comp</u>	oonents:		
Solve	nt naphtha (petroleu	n), light aroma	tic:
Asses	sment	: May caus	e drowsiness or dizziness.
delta	nethrin (ISO):		
	sment	: May caus	e respiratory irritation.
STOT	- repeated exposure		
	• •	s (Central nervo	ous system, Immune system) through prolonged or

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



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0			
Comp	oonents:		
deltar	nethrin (ISO):		
	sure routes	: Ingestion	
	t Organs		us system, Immune system
Asses	ssment	: Causes dama exposure.	age to organs through prolonged or repeated
	sure routes	: inhalation (du	
-	t Organs	: Central nervo	
Asses	ssment	: Causes dama exposure.	age to organs through prolonged or repeated
2,6-Di	i-tert-butyl-p-cresol:		
Asses	ssment		t health effects observed in animals at concentr ng/kg bw or less.
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Solve	ent naphtha (petrole	um), light aromatic:	
Speci		: Rat	
LOAE		: 500 mg/kg	
	cation Route sure time	: Ingestion : 28 Days	
4-Nor	ylphenol, branched	, ethoxylated:	
Speci	es	: Rat	
LOAE		: 150 mg/kg	
	ation Route	: Ingestion : 90 Days	
Metho		: OPPTS 870.3	3100
Rema			a from similar materials
delta	methrin (ISO):		
Speci		: Rat, male and	d female
NOAE LOAE		: 1 mg/kg	
	ation Route	: 2.5 mg/kg : Oral	
	sure time	: 13 Weeks	
Targe	t Organs	: Nervous syste	
Symp		: hyperexcitabi	
Speci		: Rat	
LOAE		: 3 mg/m3	unt/mint/fuma)
	ation Route	: inhalation (du	
	sure time	: 2 wk / 5 d/wk	/ 6 h/d



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Expo Targo	EL	: Dog : 0.1 mg/kg : 1 mg/kg : Oral : 13 Weeks : Nervous syste : Dilatation of th tion	em ne pupil, Vomiting, Tremors, Diarrhoea, Saliva-
Expo	EL	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous syste	em
Expo Targo		: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune syste : immune syste	
Spec NOA Appli		: Rat : 25 mg/kg : Ingestion : 22 Months	

#### 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:**

deltamethrin (ISO):

Inhalation

: Symptoms: respiratory tract irritation, Dizziness, Sweating, Headache, Nausea, Vomiting, anorexia, Fatigue, tingling, Palpitation, Blurred vision, muscle twitching



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Skin c Ingest	contact	:	sea, Vomiting, Blurred vision,	n irritation, Erythema, pruritis, Headache, Nau Dizziness, tingling, Sweating, muscle twitchin Fatigue, anorexia, Allergic reactions scle pain, Small pupils
ection 12	2: Ecological information	on		
Toxic	itv			
	oonents:			
	nt naphtha (petroleum	), li	ght aromatic:	
	ty to fish		LC50 (Pimepha Exposure time:	ales promelas (fathead minnow)): 8.2 mg/l 96 h : Water Accommodated Fraction
	ty to daphnia and other ic invertebrates	:	Exposure time: Test substance	magna (Water flea)): 4.5 mg/l 48 h : Water Accommodated Fraction Test Guideline 202
Toxici plants	ty to algae/aquatic	:	Exposure time: Test substance	irchneriella subcapitata (microalgae)): 3.1 m 96 h : Water Accommodated Fraction Test Guideline 201
			mg/l Exposure time: Test substance	lokirchneriella subcapitata (microalgae)): 0.5 96 h : Water Accommodated Fraction Test Guideline 201
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: Test substance	nia magna (Water flea)): 2.6 mg/l 21 d : Water Accommodated Fraction Test Guideline 211
Benze	enesulfonic acid, C10-	13-a	ılkyl derivs., cal	cium salts:
Toxici	ty to fish	:	LC50 : > 1 - < 1 Exposure time: Method: OECD	
	ty to daphnia and other ic invertebrates	:	Exposure time: Method: OECD	magna (Water flea)): > 1 - 10 mg/l 48 h Test Guideline 202 d on data from similar materials
Toxici plants	ty to algae/aquatic	:	100 mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 10 96 h d on data from similar materials





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			1 mg/l Exposure time:	okirchneriella subcapitata (green algae)): > 0 96 h ed on data from similar materials			
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time:	ynchus mykiss (rainbow trout)): > 0.1 - 1 mg 72 d ed on data from similar materials			
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 21 d Remarks: Based on data from similar materials				
4-Nor	ylphenol, branched, e	tho	xylated:				
Toxici	ity to fish	:	Exposure time:	ales promelas (fathead minnow)): > 0.1 - 1 m 96 h ed on data from similar materials			
	ty to daphnia and other ic invertebrates	:	Exposure time:	phnia dubia (water flea)): > 0.1 - 1 mg/l 48 h ed on data from similar materials			
Toxicity to algae/aquatic plants		:	mg/l Exposure time: Method: OECE	strum capricornutum (green algae)): > 1 - 10 72 h 9 Test Guideline 201 9d on data from similar materials			
			Exposure time: Method: OECD	trum capricornutum (green algae)): > 1 mg/l 72 h 9 Test Guideline 201 9d on data from similar materials			
	ctor (Acute aquatic tox-	:	1				
icity) Toxici icity)	ity to fish (Chronic tox-	:	Exposure time:	s latipes (Japanese medaka)): > 0.1 - 1 mg/l 100 d ed on data from similar materials			
	ty to daphnia and other ic invertebrates (Chron- city)	:	mg/l Exposure time:	psis bahia (opossum shrimp)): > 0.001 - 0.0 28 d ed on data from similar materials			
M-Fac toxicit	ctor (Chronic aquatic y)	:	10				
deltar	methrin (ISO):						
Toxici	ty to fish	:	LC50 (Cyprino mg/l Exposure time:	don variegatus (sheepshead minnow)): 0.000 96 h			



ersion .1	Revision Date: 13.09.2024	-	9S Number: 56121-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018		
			LC50 (Oncorhynd Exposure time: 9	chus mykiss (rainbow trout)): 0.00039 mg/l 6 h		
	ity to daphnia and other ic invertebrates	:	EC50 (Mysidopsi Exposure time: 4	s bahia (opossum shrimp)): 0.0037 μg/l 8 h		
			EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 0.0035 mg/l 8 h		
			LC50 (Gammarus Exposure time: 9	s fasciatus (freshwater shrimp)): 0.0003 μα 6 h		
Toxicity to algae/aquatic plants			<ul> <li>EC50 (Pseudokirchneriella subcapitata (green algae)) mg/l</li> <li>Exposure time: 72 h</li> <li>Method: OECD Test Guideline 201</li> <li>Remarks: No toxicity at the limit of solubility</li> </ul>			
	ctor (Acute aquatic tox-	:	1,000,000			
icity) Toxicity to fish (Chronic tox- icity)		:	NOEC (Pimephal mg/l Exposure time: 3	les promelas (fathead minnow)): 0.000022 6 d		
			NOEC (Pimephal mg/l Exposure time: 2	les promelas (fathead minnow)): 0.000017 60 d		
	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.0041 μg/l 1 d		
	ctor (Chronic aquatic	:	1,000,000			
	i-tert-butyl-p-cresol:					
Toxici	ity to fish	:	Exposure time: 9	o (zebra fish)): > 0.57 mg/l 6 h e 67/548/EEC, Annex V, C.1.		
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 0.48 mg/l 8 h <sup>-</sup> est Guideline 202		
Toxici plants	ity to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): > 0 2 h est Guideline 201		
			mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 0.2 2 h est Guideline 201		





ersion 1	Revision Date: 13.09.2024	-	S Number: 56121-00017	Date of last issue: 06.04.2024 Date of first issue: 29.03.2018
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
	ty to fish (Chronic tox-	:	Exposure time: 3	atipes (Japanese medaka)): 0.053 mg/l i0 d Fest Guideline 210
	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.316 mg/l 1 d
	ctor (Chronic aquatic	:	1	
	ty to microorganisms	:	Exposure time: 3	
Persis	stence and degradabili	ty		
<u>Comp</u>	oonents:			
	nt naphtha (petroleum		-	
Biode	gradability	:	Result: Inherentl Biodegradation: Exposure time: 2	94 %
Benze	enesulfonic acid, C10-1	13-a	ılkyl derivs., calc	ium salts:
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD	100 %
4-Nor	ylphenol, branched, et	tho	xylated:	
	gradability	:	Result: Not read	ly biodegradable. on data from similar materials
deltar	nethrin (ISO):			
Stabili	ity in water	:	Hydrolysis: 0 %(	30 d)
2,6-Di	i-tert-butyl-p-cresol:			
Biode	gradability	:	Biodegradation: Exposure time: 2	
Bioac	cumulative potential			



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	ion coefficient: n- ol/water	:	log Pow: 2.89	
delta	methrin (ISO):			
Bioac	cumulation	:		is macrochirus (Bluegill sunfish) ) factor (BCF): 1,800
	ion coefficient: n- ol/water	:	log Pow: 4.6	
2,6-D	i-tert-butyl-p-cresol:			
Bioac	cumulation	:	1 21	us carpio (Carp) n factor (BCF): 330 - 1,800
	ion coefficient: n- ol/water	:	log Pow: 5.1	
Mobi	lity in soil			
<u>Com</u>	oonents:			
Distril	methrin (ISO): bution among environ- al compartments	:	log Koc: 7.2	
Othe	r adverse effects			
No da	ata available			

Disposal 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 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

### International Regulations

:	UN 3295
:	HYDROCARBONS, LIQUID, N.O.S.
:	3
:	III
:	3
:	no



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UI UI Tr Pa La ain Pa	<b>TA-DGR</b> N/ID No. N proper shipping name ansport hazard class(es) acking group ibels acking instruction (cargo rcraft) acking instruction (passen- er aircraft)	: : : : : :	UN 3295 Hydrocarbons, liq 3 III Flammable Liquid 366 355	
UI Pr Tr Pa La	IDG-Code N number oper shipping name ansport hazard class(es) acking group ubels nS Code			IS, LIQUID, N.O.S. D), 2,6-Di-tert-butyl-p-cresol)
Ma	arine pollutant	:	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.

#### Section 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	:	Nonylphenol and nonylphenol eth- oxylates

Fire Safety (Petroleum and Flammable Materials) : Petroleum distillates Regulations

#### The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined



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Section 16: Other information	n	
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Further information		
Sources of key data used compile the Safety Data Sheet	to :	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format	:	dd.mm.yyyy
Full text of other abbrevi	iations	
ACGIH SG OEL	:	USA. ACGIH Threshold Limit Values (TLV) Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.
ACGIH / TWA SG OEL / PEL (long term)	:	8-hour, time-weighted average Permissible Exposure Level (PEL) Long Term

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





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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.

SG / EN