

Version 5.3	Revision Date: 13.09.2024		S Number: 56220-00016	Date of last issue: 07.11.2023 Date of first issue: 29.03.2018	
SECTION	1. IDENTIFICATION				
Produ	uct name	:	Deltamethrin (2.	5%) Formulation	
Manu	afacturer or supplier's	s deta	ils		
Comp	bany	:	MSD		
Addre	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
Telep	Telephone		908-740-4000		
Emer	Emergency telephone		1-908-423-6000		
E-ma	il address	:	EHSDATASTEV	VARD@msd.com	
Reco	mmended use of the	chem	ical and restriction	ons on use	
	mmended use ictions on use	:	Veterinary produ Not applicable	ict	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 5
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 1
Skin sensitization	:	Category 1
Germ cell mutagenicity	:	Category 1B
Carcinogenicity	:	Category 1B
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system, Immune system)
Specific target organ toxicity - repeated exposure (Inhalation)	:	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 d	: Category	1
	label elements		
Hazar	rd pictograms		
Signa	l Word	: Danger	
Hazar	rd Statements	H303 Ma H304 Ma H315 Ca H317 Ma H318 Ca H336 Ma H340 Ma H350 Ma H351 Su H373 Ma Immune swallowe H373 Ma through p	mmable liquid and vapor. y be harmful if swallowed. y be fatal if swallowed and enters airways. uses skin irritation. y cause an allergic skin reaction. uses serious eye damage. y cause drowsiness or dizziness. y cause genetic defects. y cause genetic defects. y cause cancer. spected of damaging fertility or the unborn child. y cause damage to organs (Central nervous system system) through prolonged or repeated exposure if d. y cause damage to organs (Central nervous system prolonged or repeated exposure if inhaled. ry toxic to aquatic life with long lasting effects.
Preca	utionary Statements	P202 Do and unde P210 Ke and othe P260 Do P264 Wa P271 Us P272 Co the work P273 Av P280 We	tain special instructions before use. not handle until all safety precautions have been rea erstood. ep away from heat, hot surfaces, sparks, open flame r ignition sources. No smoking. not breathe mist or vapors. ush skin thoroughly after handling. e only outdoors or in a well-ventilated area. ntaminated work clothing should not be allowed out o
		CENTER P303 + F	310 IF SWALLOWED: Immediately call a POISON



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		and keep comfo doctor if you fee P305 + P351 + water for severa and easy to do. CENTER/ docto P312 Call a PO P331 Do NOT in P333 + P313 If vice/ attention.	P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON or. ISON CENTER/ doctor if you feel unwell. nduce vomiting. skin irritation or rash occurs: Get medical ad- ake off contaminated clothing and wash it before
		Storage: P405 Store lock	ed up.
		Disposal: P501 Dispose o disposal plant.	f contents/ container to an approved waste

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). Vapors 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
Cottonseed oil	8001-29-4	>= 30 -< 50
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	Not Assigned	>= 3 -< 5
4-Nonylphenol, branched, ethoxylated	127087-87-0	>= 3 -< 5
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

General advice	 In the case of accident or if you feel unwell, seek medic advice immediately. When symptoms persist or in all cases of doubt seek m advice. 	
If inhaled	: If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	 In case of contact, immediately flush skin with plenty of for at least 15 minutes while removing contaminated clo and shoes. Get medical attention. Wash clothing before reuse. 	

SAFETY DATA SHEET



Deltamethrin (2.5%) Formulation

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In case of eye contact		: In case of cont for at least 15 If easy to do, r	ean shoes before reuse. tact, immediately flush eyes with plenty of water minutes. emove contact lens, if worn. tention immediately.				
lf s	wallowed	: If swallowed, I If vomiting occ Call a physicia Rinse mouth tl	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.				
an	st important symptoms d effects, both acute and ayed	: May be harmfu May be fatal if Causes skin ir May cause an Causes seriou May cause dro May cause da Suspected of o May cause da exposure if sw May cause da exposure if inh This product c Pyrethroid pois	al if swallowed. swallowed and enters airways. ritation. allergic skin reaction. s eye damage. owsiness or dizziness. netic defects. ncer. damaging fertility or the unborn child. mage to organs through prolonged or repeated allowed. mage to organs through prolonged or repeated allowed. mage to organs through prolonged or repeated aled. ontains a pyrethroid. soning should not be confused with carbamate				
Pro	tection of first-aiders	: First Aid respo and use the re	or organophosphate poisoning. 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).				
No	tes to physician		natically and supportively.				

SECTION 5. FIRE-FIGHTING MEASURES

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



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					o cool unopened containers. ged containers from fire area if it is safe to do
	Special or fire-f	protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.
SECT	TON 6.	ACCIDENTAL RELE	ASE	EMEASURES	
ti	ive equ	al precautions, protec- ipment and emer- rocedures	:		
E	Environ	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
		s and materials for nent and cleaning up	:	Suppress (knock of jet. For large spills, procontainment to kee can be pumped, so container. Clean up remaining absorbent. Local or national redisposal of this may employed in the conducted of the sections 13 and 1	s should be used. t absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate ep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
		Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Do not get in eyes.



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		Handle in acco practice, based assessment Non-sparking t Keep contained Keep away from other ignition s Take precautio Do not eat, drir	roughly after handling. ordance with good industrial hygiene and safety d on the results of the workplace exposure ools should be used. r tightly closed. m heat, hot surfaces, sparks, open flames and ources. No smoking. onary measures against static discharges. nk or smoke when using this product. revent spills, waste and minimize release to the
Cond	itions for safe storage	Store locked u Keep tightly clo Keep in a cool,	bsed. , well-ventilated place.
Mater	rials to avoid	Keep away from Do not store with Strong oxidizin Self-reactive su Organic peroxi Flammable sol Pyrophoric liqu Pyrophoric soli Self-heating su Substances an flammable gas Explosives Gases	ubstances and mixtures des ids ids ids ibstances and mixtures id mixtures which in contact with water emit

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum), light aromatic	64742-95-6	TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH
Cottonseed oil	8001-29-4	CMP (Mist)	10 mg/m ³	AR OEL
Deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal
	Further information	ation: DSEN, Sk	in	
		Wipe limit	100 µg/100 cm²	Internal
2,6-Di-tert-butyl-p-cresol	128-37-0	CMP (Va- pour and aerosol, in- halable frac- tion)	2 mg/m ³	AR OEL
	Further information: A4 - Not classifiable as a human carcinogen			n carcinogen
		TWA (Inhalable	2 mg/m ³	ACGIH



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			fraction and vapor)
Engi	neering 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 equipment.
Pers	onal protective equip	ment	
Resp	viratory protection		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
	Iter type I protection		Combined particulates and organic vapor type
М	aterial	:	Chemical-resistant gloves
R	emarks		Consider double gloving. Take note that the product is flammable, which may impact the selection of hand protection.
Eye ç	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	and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Hygie	ene 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.



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SEC	TION 9	. PHYSICAL AND CHI	EMIC		3
	Appear	ance	:	liquid	
	Color		:	yellow	
	Odor		:	No data available	9
	Odor T	hreshold	:	No data available)
	рН		:	4 - 5	
	Melting	point/freezing point	:	< -5 °C	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	40 °C	
	Evapor	ation rate	:	No data available)
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available)
	Relative	e vapor density	:	No data available)
	Relative	e density	:	No data available	
	Density	1	:	0,909 - 0,927 g/c	m³ (20 °C)
	Solubili Wat	ty(ies) er solubility	:	partly miscible	
	Partitio	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	



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	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecul	ar weight	:	No data available	9
	Particle Particle	characteristics size	:	Not applicable	
SEC	TION 10	D. STABILITY AND RI	EAC	ΤΙVITY	
		ity al stability ity of hazardous reac-	:	Stable under nor Flammable liquid Vapors may form	
	Incomp	ons to avoid atible materials ous decomposition s	:	Heat, flames and Oxidizing agents No hazardous de	
SEC	TION 1	1. TOXICOLOGICAL I	NFC	ORMATION	
	Informa exposui	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact	
	•	harmful if swallowed.			
	Produc Acute o	ral toxicity	:	Acute toxicity esti Method: Calculati	mate: 2.594 mg/kg on method
	Acute ir	nhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
	<u>Compo</u>	nents:			
		t naphtha (petroleum ral toxicity), liç :	ght aromatic: LD50 (Rat): > 5.0	00 mg/kg
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 5,6 Exposure time: 4 Test atmosphere:	h
	Acute d	ermal toxicity	:	LD50 (Rabbit): > 2	2.000 mg/kg
	Cotton	seed oil:			



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Benz	zenesulfonic acid, C10-1	13-a	ılkyl derivs., calciı	um salts:
Acut	e oral toxicity	:	LD50 (Rat): 4.445	mg/kg
Acut	e dermal toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te Remarks: Based o	
4-No	onylphenol, branched, e	tho	xylated:	
	e oral toxicity		LD50 (Rat): > 2.00	00 mg/kg
Delta	amethrin (ISO):			
Acut	e oral toxicity	:	LD50 (Rat): 66,7 r	ng/kg
			LD50 (Rat): 9 - 13	9 mg/kg
			LD50 (Mouse): 19	- 34 mg/kg
Acut	e inhalation toxicity	:	LC50 (Rat): 0,8 m Exposure time: 2 Test atmosphere:	ĥ
Acut	e dermal toxicity	:	LD50 (Rabbit): 2.0	000 mg/kg
			LD50 (Rat): > 800	mg/kg
	e toxicity (other routes of inistration)	:	LD50 (Rat): 2,5 m Application Route	
			LD50 (Mouse): 10 Application Route	
2,6-[Di-tert-butyl-p-cresol:			
	e oral toxicity	:	LD50 (Rat): > 6.00 Method: OECD Te	
Acut	e dermal toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te Assessment: The toxicity	
-	corrosion/irritation			
Com	ponents:			
Solv	ent naphtha (petroleum), lig	ght aromatic:	
Spec Meth Rest	nod	:	Rabbit OECD Test Guide Skin irritation	line 404

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



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Speci	es	: Rabbit	
Method		: OECD Test Gui	deline 404
Resul	t	: Skin irritation	
4-Nor	ylphenol, branched	d, ethoxylated:	
Speci	es	: Rabbit	
Metho	bd	: OECD Test Gui	
Resul		: No skin irritation	
Rema	irks	: Based on data f	rom similar materials
Delta	methrin (ISO):		
Speci		: Rabbit	
Resul	t	: No skin irritation	1
2,6-Di	i-tert-butyl-p-cresol:	:	
Speci	es	: Rabbit	
Metho		: OECD Test Gui	deline 404
Resul		: No skin irritation	
Rema	arks	: Based on data f	rom similar materials
Serio	us eye damage/eye	irritation	
	us eye damage/eye es serious eye damag		
Cause	es serious eye damag		
Cause <u>Comp</u>	es serious eye damaç ponents:	ge.	
Cause <u>Comp</u> Solve	es serious eye damag ponents: ent naphtha (petrole	ge. um), light aromatic:	
Cause <u>Comp</u> Solve Speci	es serious eye damag <u>ponents:</u> ent naphtha (petrole es	ge. um), light aromatic: : Rabbit	
Cause <u>Comp</u> Solve	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t	ge. um), light aromatic:	
Cause <u>Comp</u> Solve Speci Resul Metho	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t od	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui	deline 405
Cause Comp Solve Speci Resul Metho Benzo	es serious eye damag <u>ponents:</u> ent naphtha (petrole es ^{It} od enesulfonic acid, C1	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., calo	deline 405
Cause Comp Solve Speci Resul Metho Benze Speci	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t d enesulfonic acid, C1 es	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., calo : Rabbit	deline 405 cium salts:
Cause Comp Solve Speci Resul Metho Benzo	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t d enesulfonic acid, C1 es t	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., calo	deline 405 cium salts: cts on the eye
Cause Comp Solve Speci Resul Metho Speci Resul Metho	es serious eye damag <u>ponents:</u> ent naphtha (petrole es it od enesulfonic acid, C1 es it od	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., calo : Rabbit : Irreversible effer : OECD Test Gui	deline 405 cium salts: cts on the eye
Cause Comp Solve Speci Resul Metho Speci Resul Metho 4-Nor	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t bd enesulfonic acid, C1 es t bd	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., cale : Rabbit : Irreversible effer : OECD Test Gui	deline 405 cium salts: cts on the eye
Cause Comp Solve Speci Resul Metho Speci Resul Metho 4-Nor Speci	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t od enesulfonic acid, C1 es t od nylphenol, branchec es	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., cald : Rabbit : Irreversible effer : OECD Test Gui d, ethoxylated: : Rabbit	deline 405 cium salts: cts on the eye deline 405
Cause Comp Solve Speci Resul Metho Speci Resul Metho 4-Nor	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t bod enesulfonic acid, C1 es t bod nylphenol, branchec es t	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., cale : Rabbit : Irreversible effer : OECD Test Gui	deline 405 cium salts: cts on the eye deline 405
Cause Comp Solve Speci Resul Metho Speci Resul Metho 4-Nor Speci Resul	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t bd enesulfonic acid, C1 es t bd nylphenol, branched es t bd	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., calo : Rabbit : Irreversible effect : OECD Test Gui d, ethoxylated: : Rabbit : No eye irritation : OECD Test Gui	deline 405 cium salts: cts on the eye deline 405
Cause Comp Solve Speci Resul Metho Speci Resul Metho Speci Resul Metho Rema	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t bd enesulfonic acid, C1 es t bd nylphenol, branched es t bd arks	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., calo : Rabbit : Irreversible effect : OECD Test Gui d, ethoxylated: : Rabbit : No eye irritation : OECD Test Gui	deline 405 cium salts: cts on the eye deline 405 deline 405
Cause Comp Solve Speci Resul Metho Speci Resul Metho Resul Metho Rema	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t bd enesulfonic acid, C1 es t bd nylphenol, branched es t bd methrin (ISO):	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., calo : Rabbit : Irreversible effect : OECD Test Gui d, ethoxylated: : Rabbit : No eye irritation : OECD Test Gui	deline 405 cium salts: cts on the eye deline 405 deline 405
Cause Comp Solve Speci Resul Metho Speci Resul Metho Speci Resul Metho Rema	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t bd enesulfonic acid, C1 es t bd nylphenol, branched es t bd methrin (ISO): es	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., cald : Rabbit : Irreversible effect : OECD Test Gui d, ethoxylated: : Rabbit : No eye irritation : OECD Test Gui : Based on data f	deline 405 cium salts: cts on the eye deline 405 deline 405 rom similar materials
Cause Comp Solve Speci Resul Metho Speci Resul Metho Resul Metho Rema Delta	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t bd enesulfonic acid, C1 es t bd nylphenol, branchec es t bd urks methrin (ISO): es t	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., cald : Rabbit : Irreversible effer : OECD Test Gui d, ethoxylated: : Rabbit : No eye irritation : OECD Test Gui : Based on data f : Rabbit : Rabbit : Rabbit : Based on data f	deline 405 cium salts: cts on the eye deline 405 deline 405 rom similar materials
Cause Comp Solve Speci Resul Metho Speci Resul Metho Resul Metho Rema Delta Speci Resul Metho Rema	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t od enesulfonic acid, C1 es t od nylphenol, branched es t od methrin (ISO): es t i-tert-butyl-p-cresol:	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., cale : Rabbit : Irreversible effer : OECD Test Gui d, ethoxylated: : Rabbit : No eye irritation : OECD Test Gui : Based on data f : Rabbit : Rabbit : Rabbit : Based on data f	deline 405 cium salts: cts on the eye deline 405 deline 405 rom similar materials
Cause Comp Solve Speci Resul Metho Speci Resul Metho Resul Metho Rema Delta	es serious eye damag <u>ponents:</u> ent naphtha (petrole es t od enesulfonic acid, C1 es t od nylphenol, branched es t od methrin (ISO): es t i-tert-butyl-p-cresol: es	ge. um), light aromatic: : Rabbit : No eye irritation : OECD Test Gui 10-13-alkyl derivs., cald : Rabbit : Irreversible effer : OECD Test Gui d, ethoxylated: : Rabbit : No eye irritation : OECD Test Gui : Based on data f : Rabbit : Rabbit : Rabbit : Based on data f	deline 405 cium salts: cts on the eye deline 405 deline 405 rom similar materials



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Rema	arks	: Based on data	from similar materials
Resp	iratory or skin sens	itization	
Skin	sensitization		
Mav	cause an allergic skin	reaction.	
-	iratory sensitization		
-	lassified based on av		
Com	ponents:		
Solve	ent naphtha (petrole	um), light aromatic:	
Test	Туре	: Buehler Test	
	es of exposure	: Skin contact	
Spec	ies	: Guinea pig	
Resu	lt	: negative	
Cotto	onseed oil:		
Test	Type	: Human repeat	insult patch test (HRIPT)
	es of exposure	: Skin contact	
Resu		: negative	
Rema	arks		from similar materials
Test Route Spec Metho Rema	es of exposure ies od	: Magnusson-Kli : Skin contact : Guinea pig : OECD Test Gu : Based on data	
4			
	nylphenol, branched -	•	
Test		: Maximization T	est
	es of exposure	: Skin contact	
Spec		: Guinea pig	
Resu Rema		: negative : Based on data	from similar materials
Reine		. Dased on data	
Delta	methrin (ISO):		
Test		: Maximization T	lest lest
	es of exposure	: Dermal	
Spec		: Guinea pig	
Resu	It	: negative	
Test	Туре	: Human repeat	insult patch test (HRIPT)
	es of exposure	: Dermal	,
Spec		: Humans	
Resu		: positive	
260	i tort hutul n arasal		
	i-tert-butyl-p-cresol:		incult potch toot (UDIDT)
Test	гуре	: Human repeat	insult patch test (HRIPT)



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Route Speci Resul		: Skin contac : Humans : negative	t
	cell mutagenicity ause genetic defects		
Comp	oonents:		
Solve	ent naphtha (petrole	um), light aromatic	:
Genot	toxicity in vitro	: Test Type: Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: I Result: posi	n vitro mammalian cell gene mutation test tive
Genot	toxicity in vivo	gonia Species: Mo	Route: Intraperitoneal injection
	cell mutagenicity - ssment	: Positive res tests in man	ult(s) from in vivo heritable germ cell mutagenici nmals
Cotto	nseed oil:		
Genot	toxicity in vitro	: Test Type: Result: nega	Bacterial reverse mutation assay (AMES) ative
Benze	enesulfonic acid, C1	0-13-alkyl derivs.,	calcium salts:
Genot	toxicity in vitro	Method: Dir Result: nega	Bacterial reverse mutation assay (AMES) ective 67/548/EEC, Annex V, B.13/14. ative ased on data from similar materials
4-Nor	nylphenol, branched	, ethoxylated:	
	toxicity in vitro	: Test Type: I Method: OE Result: nega	Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative ased on data from similar materials
		Method: OE Result: nega	Chromosome aberration test in vitro CD Test Guideline 473 ative ased on data from similar materials
		Method: OE Result: nega	n vitro mammalian cell gene mutation test CD Test Guideline 476 ative ased on data from similar materials

Deltamethrin (ISO):



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Genoto	xicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA F Test system: Escl Result: negative	
				nosomal aberration nese hamster ovary cells
				o mammalian cell gene mutation test nese hamster lung cells DAEL: 20 mg/kg
Genoto	oxicity in vivo	:	Test Type: Micror Species: Mouse Application Route Result: negative	
			Test Type: domin Species: Mouse Application Route Result: negative	
			Test Type: sister Species: Mouse Cell type: Bone m Application Route Result: negative	
2,6-Di-	tert-butyl-p-cresol:			
	exicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chrom Result: negative	nosome aberration test in vitro
Genoto	xicity in vivo	:		enicity (in vivo mammalian bone-marrow chromosomal analysis) :: Ingestion

Carcinogenicity

May cause cancer.



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Comr	oonents:			
		、		
	nt naphtha (petrole	um), li	-	
Specie		:	Mouse	
	ation Route	:	Skin contact	
	sure time	:	2 Years	
Resul	t	:	positive	
Carcir ment	nogenicity - Assess-	:	Sufficient evide	nce of carcinogenicity in animal experiment
Delta	methrin (ISO):			
Specie	es	:	Mouse, male a	nd female
Applic	ation Route	:	oral (feed)	
Expos	sure time	:	104 weeks	
NÓAE	EL	:	8 mg/kg body v	
LOAE		:	4 mg/kg body v	veight
Resul	t	:	positive	
Targe	t Organs	:	Lymph nodes	
Specie	es	:	Rat, male and	emale
	ation Route	:	oral (feed)	
	sure time	:	2 Years	
Resul	t	:	negative	
Speci	es	:	Dog, male and	female
Applic	ation Route	:	oral (feed)	
Expos	sure time	:	2 Years	
NOAE	EL	:	1 mg/kg body v	veight
Resul	t	:	negative	
2.6-Di	-tert-butyl-p-cresol:			
Specie	• •		Rat	
•	ation Route	:	Ingestion	
	sure time	:	22 Months	
Resul		:	negative	
-	oductive toxicity ected of damaging fer	tility or	the unborn child	J.
Comp	oonents:			
Solve	nt naphtha (petrole	um), li	ght aromatic:	
Effect	s on fertility	:	Test Type: Rep	production/Developmental toxicity screening
	-		test	· · · · · ·
			Species: Rat	
			Application Ro	ute: inhalation (vapor)
			Result: negativ	e
Effect	s on fetal developme	nt :		oryo-fetal development
			Species: Rat	
				ute: inhalation (vapor)
			Result: negativ	



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	4-Non	ylphenol, branched, e	tho	xylated:				
	Reproductive toxicity - As- sessment		: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.					
	Deltan	nethrin (ISO):						
	Effects on fertility		:	Species: Rat Application Route Early Embryonic I weight Symptoms: No eff	generation reproduction toxicity study : oral (feed) Development: NOAEL: 50 mg/kg body fects on fertility., Embryo-fetal toxicity. ant toxicity observed in testing			
				Species: Rat Application Route Early Embryonic I weight	eneration reproduction toxicity study : Oral Development: LOAEL: 84 - 149 mg/kg body fects on fertility., Embryo-fetal toxicity.			
				Test Type: Fertility Species: Rat, mail Application Route Fertility: LOAEL: 1 Symptoms: Effect Target Organs: Te	e : Oral I mg/kg body weight s on fertility.			
	Effects	on fetal development	:	Result: Skeletal m	: oral (gavage) oxicity: LOAEL: 1 mg/kg body weight			
					•			
					emale			
	Reproc sessmo	ductive toxicity - As- ent	:		f adverse effects on sexual function and development, based on animal experiments.			
		tert-butyl-p-cresol:	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion			



3	Revision Date: 13.09.2024		0S Number: 56220-00016	Date of last issue: 07.11.2023 Date of first issue: 29.03.2018
Effect	ts on fetal development	:	Test Type: Embr Species: Rat Application Rout Result: negative	
	F-single exposure cause drowsiness or diz	zine	ss	
-	ponents:			
	ent naphtha (petroleun	n). li	oht aromatic:	
	ssment	:	-	siness or dizziness.
Delta	methrin (ISO):			
Asses	ssment	:	May cause respi	ratory irritation.
STOT	-repeated exposure			
repea	ated exposure if swallow cause damage to organs	ed.		ttem, Immune system) through prolonged or tem) through prolonged or repeated exposu
<u>Com</u>	ponents:			
Delta	methrin (ISO):			
Targe	es of exposure et Organs ssment	:		system, Immune system to organs through prolonged or repeated
Route	es of exposure	:	inhalation (dust/	nist/fume)
•	et Organs	:	Central nervous	
Asses	ssment		exposure.	to organs through prolonged or repeated
2 6-D	i-tert-butyl-p-cresol:			
	ssment	:	No significant he tions of 100 mg/	ealth effects observed in animals at concentrated by or less.
Repe	ated dose toxicity			
-	ated dose toxicity ponents:			
Com	-	n), li	ght aromatic:	
<u>Com</u> Solve Speci	ponents: ent naphtha (petroleun	n), li :	Rat	
Comp Solve Speci LOAE	ponents: ent naphtha (petroleun ies EL	n), li :	Rat 500 mg/kg	
Com Solve Speci LOAE Applic	ponents: ent naphtha (petroleun	n), li : :	Rat	
Com Solve Speci LOAE Applic Expos	ponents: ent naphtha (petroleun ies EL cation Route	:	Rat 500 mg/kg Ingestion 28 Days	



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	ation Route sure time od	 150 mg/kg Ingestion 90 Days OPPTS 870.31 Based on data 	00 from similar materials
Delta	methrin (ISO):		
Specie NOAE LOAE Applic Expos	es EL L cation Route sure time t Organs	 Rat, male and 1 mg/kg 2,5 mg/kg Oral 13 Weeks Nervous system hyperexcitabilities 	m
	L ation Route sure time	: Rat : 3 mg/m3 : inhalation (dus : 2 wk / 5 d/wk / : Local irritation,	
Expos	EL L cation Route sure time t Organs	: Dog : 0,1 mg/kg : 1 mg/kg : Oral : 13 Weeks : Nervous syster : Dilatation of th	m e pupil, Vomiting, Tremors, Diarrhea, Salivation
Expos Targe	EL L cation Route sure time t Organs	: Rat : 14 mg/kg : 54 mg/kg : Oral : 91 d : Nervous system	n
Expos	L cation Route sure time t Organs	: Mouse : 6 mg/kg : Oral : 12 Weeks : Immune syster : immune syster	
2,6-Di	-tert-butyl-p-cresol:		
		: Rat : 25 mg/kg : Ingestion : 22 Months	

Aspiration toxicity

May be fatal if swallowed and enters airways.





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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:

Inhalation	:	Symptoms: respiratory tract irritation, Dizziness, Sweating, Headache, Nausea, Vomiting, anorexia, Fatigue, tingling,
		Palpitation, Blurred vision, muscle twitching
Skin contact	:	Symptoms: Skin irritation, Erythema, pruritis, Headache, Nau-
		sea, Vomiting, Dizziness, tingling, Sweating, muscle twitching,
		Blurred vision, Fatigue, anorexia, Allergic reactions
Ingestion	:	Symptoms: muscle pain, Small pupils

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Solvent naphtha (petroleum), light aromatic:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 8,2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 4,5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
		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- ic toxicity)	:	NOELR (Daphnia magna (Water flea)): 2,6 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211



/ersion 5.3	Revision Date: 13.09.2024		0S Number: 56220-00016	Date of last issue: 07.11.2023 Date of first issue: 29.03.2018
	inseed oil: ity to fish	:	LC50 : > 100 mg/ Exposure time: 96 Remarks: Based	
	ity to daphnia and other ic invertebrates	:	LC50: > 100 mg/l Exposure time: 48	
Toxici plants	ity to algae/aquatic	:	EC50: > 100 mg/l Exposure time: 72 Remarks: Based	
			NOEC: > 10 - 100 Exposure time: 72 Remarks: Based	•
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC: > 0,1 - 1 r Exposure time: 21 Remarks: Based of	
Benz	enesulfonic acid, C10-′	13-a	ılkvi derivs calci	um salts:
	ity to fish	:	LC50 : > 1 - < 10 Exposure time: 96 Method: OECD To	mg/l ∂ h
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxici plants	ity to algae/aquatic	:	100 mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 10 - S h on data from similar materials
			1 mg/l Exposure time: 96	rchneriella subcapitata (green algae)): > 0,1 - S h on data from similar materials
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 72	chus mykiss (rainbow trout)): > 0,1 - 1 mg/l 2 d on data from similar materials
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 21	nagna (Water flea)): > 1 mg/l l d on data from similar materials
4-Nor	nylphenol, branched, e	the	xvlated:	
	ity to fish	:	•	s promelas (fathead minnow)): > 0,1 - 1 mg/l S h



Versi 5.3	ion	Revision Date: 13.09.2024		9S Number: 56220-00016	Date of last issue: 07.11.2023 Date of first issue: 29.03.2018
				Remarks: Based	on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0,1 - 1 mg/l 3 h on data from similar materials
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	
				Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	1	
-	icity) Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 10	tipes (Japanese medaka)): > 0,1 - 1 mg/l)0 d on data from similar materials
ä		to daphnia and other invertebrates (Chron- ty)	:	mg/l Exposure time: 28	is bahia (opossum shrimp)): > 0,001 - 0,01 3 d on data from similar materials
	M-Facto toxicity)	or (Chronic aquatic	:	10	
I	Deltam	ethrin (ISO):			
-	Toxicity	to fish	:	LC50 (Cyprinodor mg/l Exposure time: 96	n variegatus (sheepshead minnow)): 0,00048
				LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0,00039 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Mysidopsis Exposure time: 48	s bahia (opossum shrimp)): 0,0037 µg/l 3 h
				EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0,0035 mg/l 3 h
				LC50 (Gammarus Exposure time: 96	s fasciatus (freshwater shrimp)): 0,0003 μg/l δ h
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	
I	M-Facto	or (Acute aquatic tox-	:	1.000.000	



ersion 3	Revision Date: 13.09.2024		9S Number: 56220-00016	Date of last issue: 07.11.2023 Date of first issue: 29.03.2018
icity) Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 36	es promelas (fathead minnow)): 0,000022 S d
			NOEC (Pimephale mg/l Exposure time: 26	es promelas (fathead minnow)): 0,000017 60 d
aquat	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,0041 µg/l ⊨d
ic toxi M-Fa toxicit	ctor (Chronic aquatic	:	1.000.000	
2,6-D	i-tert-butyl-p-cresol:			
Toxic	ity to fish	:	Exposure time: 96	(zebra fish)): > 0,57 mg/l 5 h 67/548/EEC, Annex V, C.1.
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
M-Fa	ctor (Acute aquatic tox-	:	1	
	ity to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 30 Method: OECD To	
	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,316 mg/l ⊢d
	ctor (Chronic aquatic	:	1	
	ity to microorganisms	:	EC50: > 10.000 m Exposure time: 3 Method: OECD Te	h

Persistence and degradability

Components:

Solvent naphtha (petroleum	ı), li	ght aromatic:
Biodegradability	:	Result: Inherently biodegradable.



rsion	Revision Date: 13.09.2024		OS Number: 56220-00016	Date of last issue: 07.11.2023 Date of first issue: 29.03.2018
			Biodegradation: Exposure time: 2	
Cotto	nseed oil:			
Biode	gradability	:	Result: Readily b Remarks: Based	piodegradable. I on data from similar materials
Benze	enesulfonic acid, C10)-13-a	alkyl derivs., calc	ium salts:
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1	100 %
4-Nor	ylphenol, branched,	etho	xylated:	
Biode	gradability	:		ily biodegradable. I on data from similar materials
Delta	methrin (ISO):			
Stabil	ity in water	:	Hydrolysis: 0 %(30 d)
2,6-Di	i-tert-butyl-p-cresol:			
	gradability	:	Biodegradation: Exposure time: 2	
Bioac	cumulative potential			
Comp	oonents:			
Benze	enesulfonic acid, C10)-13-a	alkyl derivs., calc	ium salts:
	on coefficient: n- ol/water	:	log Pow: 2,89	
	methrin (ISO):			
Bioac	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1.800
	on coefficient: n- ol/water	:	log Pow: 4,6	
	i-tert-butyl-p-cresol:			
Bioac	cumulation	:	Species: Cyprinu Bioconcentration	us carpio (Carp) i factor (BCF): 330 - 1.800
	on coefficient: n- ol/water	:	log Pow: 5,1	



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Mohi	lity in soil		
WODI	ity in son		
Com	ponents:		
Delta	methrin (ISO):		
Distri	bution among environ-	: log Koc: 7,2	
ment	al compartments		
Othe	r adverse effects		
No da	ata available		
SECTION	13. DISPOSAL CONS	DERATIONS	
Disp	osal methods		
Wast	e from residues	: Do not dispos	e of waste into sewer.
		•	accordance with local regulations.
Conta	aminated packaging		ners should be taken to an approved waste
			for recycling or disposal.
			ners retain residue and can be dangerous. Irize, cut, weld, braze, solder, drill, grind, or
		•	anze, cut, weid, braze, solder, driit, grind, of

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous	:	UN 3295 HYDROCARBONS, LIQUID, N.O.S. 3 III 3 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	:	UN 3295 Hydrocarbons, liquid, n.o.s. 3 III Flammable Liquids 366 355
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code	:	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Deltamethrin (ISO), 2,6-Di-tert-butyl-p-cresol) 3 III 3 F-E, S-D



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Maria	a mallutant		

Marine pollutant : yes

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

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/legislation specific for the substance or mixture

Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	:	Solvent naphtha (petroleum), light aromatic

The ingredients of this product are reported in the following inventories:

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

SECTION 16. OTHER INFORMATION

Revision Date	: 13.09.2024
Date format	: dd.mm.yyyy

Further information

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

Full text of other abbreviations

ACGIH AR OEL	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / TWA AR OEL / CMP	8-hour, time-weighted average TLV (Threshold Limit Value)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys-



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tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

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

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