

Deltamethrin (1.05%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
1.6	03.11.2023	10215167-00007	Date of first issue: 10.11.2021

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Deltamethrin (1.05%) Formulation			
Manufacturer or supplier's	deta	ails			
Company name of supplier	:	MSD			
Address	:	126 E. Lincoln Avenue			
		Rahway, New Jersey U.S.A. 07065			
Telephone	:	908-740-4000			
Emergency telephone	:	1-908-423-6000			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use	:	Veterinary product			
Restrictions on use	:	Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Central nervous system, Immune system)
Specific target organ toxicity - repeated exposure (Inhalation)	:	Category 1 (Central nervous system)
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	 H317 May cause an allergic skin reaction. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H372 Causes damage to organs (Central nervous system, Immune system) through prolonged or repeated exposure if swallowed. H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.





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		P264 Wash skin P270 Do not eat P272 Contamina the workplace.	eathe mist or vapors. thoroughly after handling. , drink or smoke when using this product. ated work clothing should not be allowed out of ective gloves/ protective clothing/ eye protection/	
		P308 + P313 IF attention. P333 + P313 If s attention.	ON SKIN: Wash with plenty of water. exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical advice/ ke off contaminated clothing and wash it before	
		Storage: P405 Store lock	ed up.	
		Disposal: P501 Dispose of contents/ container to an approved v posal plant.		

Other hazards

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). Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Deltamethrin (ISO)	52918-63-5	>= 1 -< 5

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.



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In case of eye contact If swallowed		 If in eyes, rinse well with water. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. 		
Most important symptoms and effects, both acute and delayed		Suspected of da unborn child. Causes damage exposure if swa Causes damage exposure if inha Contact with dus the skin. Dust contact wit This product cor	 May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure if swallowed. Causes damage to organs through prolonged or repeated exposure if inhaled. Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. This product contains a pyrethroid. 	
	ection of first-aiders s to physician	 Pyrethroid poisoning should not be confused with carbama 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). Treat symptomatically and supportively. 		

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	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
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and persona protective equipment recommendations (see section 8).	
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.	



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		oil barriers). Retain and disp	ing over a wide area (e.g., by containment or bose of contaminated wash water. s should be advised if significant spillages ained.
Methods and materials for containment and cleaning up		Avoid dispersal with compresse Dust deposits a surfaces, as the released into th For large spills, containment to can be pumped container. Clean up remain absorbent. Local or national disposal of this employed in the determine whic Sections 13 an	ert absorbent material. of dust in the air (i.e., clearing dust surfaces ed air). should not be allowed to accumulate on ese may form an explosive mixture if they are the atmosphere in sufficient concentration. provide diking or other appropriate keep material from spreading. If diked material d, store recovered material in appropriate ning materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	Static electricity may accumulate and causing an explosion. Provide adequate precautions, such and bonding, or inert atmospheres.	c .
Local/Total ventilation	f sufficient ventilation is unavailable ventilation.	, use with local exhaust
Advice on safe handling	Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good indeprectice, based on the results of the assessment	s. andling. ood industrial hygiene and safety
	Minimize dust generation and accum Keep container closed when not in u Keep away from heat and sources o Fake precautionary measures again Do not eat, drink or smoke when usi Fake care to prevent spills, waste ar environment.	ise. f ignition. st static discharges. ng this product.
Hygiene measures	f exposure to chemical is likely durir lushing systems and safety showers blace. When using do not eat, drink or smo Contaminated work clothing should i vorkplace.	s close to the working ke.



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		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		: Keep in properly labeled containers. Store in accordance with the particular national regulations.		
Materials to avoid		: Do not store with Strong oxidizing a Self-reactive sub	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives	

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	
Deltamethrin (ISO)	52918-63-5	TWA	15 µg/m3 (OEB 3)	Internal	
	Further information: DSEN, Skin				
		Wipe limit	100 µg/100 cm ²	Internal	

Engineering measures	:	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.	
Personal protective equipme	ent		
Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.	
Filter type Hand protection	:	Combined particulates and organic vapor type	
Material	:	Chemical-resistant gloves	
Remarks Eye protection	:	Consider double gloving. 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.	



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		d body protection	:	task being perform disposable suits) Use appropriate c contaminated clot	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. legowning techniques to remove potentially hing.
SECT	FION 9.	PHYSICAL AND CHE	EMIC		8
Α	Appear	ance	:	liquid	
C	Color		:	Colorless to pale	yellow
C	Odor		:	No data available	9
C	Odor Th	nreshold	:	No data available	9
р	эΗ		:	No data available	9
Ν	Melting	point/freezing point	:	No data available	9
	nitial bo ange	oiling point and boiling	:	> 150 °C	
F	=lash p	oint	:	> 93 °C	
E	Evapora	ation rate	:	No data available	9
F	-lamma	ability (solid, gas)	:	May form explosi handling or other	ive dust-air mixture during processing, means.
F	-lamma	ability (liquids)	:	Ignitable (see flas	sh point)
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
V	√apor p	pressure	:	No data available	9
F	Relative	e vapor density	:	No data available	9
F	Relative	e density	:	0.945 - 0.955 (20) °C)
C	Density		:	No data available	9
S	Solubilit Wate	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol/ Autoign	/water ition temperature	:	No data available	9



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De	ecomposition temperature	: No data available	9	
	scosity Viscosity, kinematic cplosive properties	No data availableNot explosive	9	
O	xidizing properties	: The substance o	r mixture is not classified as oxidizing.	
M	olecular weight	: No data available		
Pa	article 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. Vapors may form explosive mixture with air. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Components:

Deltamethrin (ISO):



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	Acute o	ral toxicity	:	LD50 (Rat): 66.7 r	ng/kg
				LD50 (Rat): 9 - 13	9 mg/kg
				LD50 (Mouse): 19) - 34 mg/kg
	Acute ir	nhalation toxicity	:	LC50 (Rat): 0.8 m Exposure time: 2 Test atmosphere:	ĥ
	Acute d	ermal toxicity	:	LD50 (Rabbit): 2,0	000 mg/kg
				LD50 (Rat): > 800	mg/kg
	Acute to adminis	oxicity (other routes of tration)	:	LD50 (Rat): 2.5 m Application Route	
				LD50 (Mouse): 10 Application Route	
	Skin og	vracion/irritation			

Skin corrosion/irritation

Not classified based on available information.

Components:

Deltamethrin (ISO):

Species	:	Rabbit
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Deltamethrin (ISO):

Species	:	Rabbit
Result	:	Moderate eye irritation

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

Deltamethrin (ISO):

Test Type	:	Maximization Test
Routes of exposure	:	Dermal
Species	:	Guinea pig
Result	:	negative



Ver 1.6	sion	Revision Date: 03.11.2023)S Number: 215167-00007	Date of last issue: 30.09.2023 Date of first issue: 10.11.2021
	Test Ty Routes Species Result	of exposure		Human repeat ins Dermal Humans positive	ult patch test (HRIPT)
		cell mutagenicity ssified based on availa	ble	information.	
	<u>Compo</u>	onents:			
		nethrin (ISO): exicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: DNA F Test system: Esch 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: Micron Species: Mouse Application Route Result: negative	
				Test Type: domina Species: Mouse Application Route Result: negative	
				Test Type: sister of Species: Mouse Cell type: Bone m Application Route Result: negative	
		ogenicity ssified based on availa	ble	information.	
	Compo	onents:			
	Deltam	ethrin (ISO):			
	<u> </u>			NA	fairs also

Species Application Route Exposure time	:	Mouse, male and female oral (feed) 104 weeks
NÓAEL LOAEL		8 mg/kg body weight 4 mg/kg body weight



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Resul Targe	t t Organs	: positive : Lymph nodes	
	ation Route sure time	 Rat, male and female oral (feed) 2 Years negative 	
	ation Route sure time L	 Dog, male and female oral (feed) 2 Years 1 mg/kg body weight negative 	
•	oductive toxicity ected of damaging fertili	. Suspected of damaging the unborn child.	
Comp	oonents:		
Delta	methrin (ISO):		
Effect	s on fertility	 Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: oral (feed) Early Embryonic Development: NOAEL: 50 mg/kg body weight Symptoms: No effects on fertility., Embryo-fetal toxicity. Remarks: Significant toxicity observed in testing Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: LOAEL: 84 - 149 mg/kg body weight Symptoms: No effects on fertility., Embryo-fetal toxicity. Test Type: Fertility Species: Rat, male Application Route: Oral Fertility: LOAEL: 1 mg/kg body weight Symptoms: Effects on fertility. Target Organs: Testes 	
Effect	s on fetal development	 Test Type: Development Species: Mouse Application Route: oral (gavage) Developmental Toxicity: LOAEL: 1 mg/kg body weight Result: Skeletal malformations. Remarks: Maternal toxicity observed. Test Type: Development Species: Rat, female Developmental Toxicity: NOAEL: 10 mg/kg body weight Symptoms: No effects on fetal development. Test Type: Development 	



rsion	Revision Date: 03.11.2023		OS Number: 215167-00007	Date of last issue: 30.09.2023 Date of first issue: 10.11.2021
			Developmental	, female te: oral (gavage) Toxicity: NOAEL: 16 mg/kg body weight effects on fetal development.
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function and n development, based on animal experime
	-single exposure lassified based on avai	ilable	information.	
Com	oonents:			
	methrin (ISO):			
	ssment	:	May cause resp	iratory irritation.
Cause peate	d exposure if swallowe es damage to organs (ed.		n, Immune system) through prolonged or r n) through prolonged or repeated exposur
	oonents:			
Delta	methrin (ISO):			
Route Targe	es of exposure et Organs ssment	:		system, Immune system to organs through prolonged or repeated
Targe	es of exposure et Organs ssment	:	inhalation (dust/ Central nervous Causes damage exposure.	
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
Delta	methrin (ISO):			
Expos	EL EL cation Route sure time et Organs		Rat, male and fe 1 mg/kg 2.5 mg/kg Oral 13 Weeks Nervous system hyperexcitability	L
	L cation Route sure time	:	Rat 3 mg/m3 inhalation (dust/ 2 wk / 5 d/wk / 6 Local irritation, r	



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Expo Targe	EL		kg eeks ous system	oupil, Vomiting, Tremors, Diarrhea, Salivation
Expo	EL	: Rat : 14 mg : 54 mg : Oral : 91 d : Nervo		
Expo	EL cation Route sure time et Organs		kg	effects
-	r ation toxicity lassified based on avai	lable inform	ation.	
Expe	rience with human ex	posure		
Com	ponents:			
Delta	methrin (ISO):			
Inhala	ation	Head	ache, Naus	ratory tract irritation, Dizziness, Sweating, ea, Vomiting, anorexia, Fatigue, tingling, ed vision, muscle twitching
Skin	contact	: Symp sea, V	toms: Skin /omiting, D	irritation, Erythema, pruritis, Headache, Nau- zziness, tingling, Sweating, muscle twitching, atigue, anorexia, Allergic reactions
Inges	tion			cle pain, Small pupils
SECTION	12. ECOLOGICAL IN	ORMATIO	N	
Ecoto	oxicity			
	ponents:			
	methrin (ISO):			
	ity to fish	mg/l	(Cyprinodo sure time: 9	n variegatus (sheepshead minnow)): 0.00048 6 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.00039 mg/l Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Mysidopsis bahia (opossum shrimp)): 0.0037 µg/l aquatic invertebrates Exposure time: 48 h



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				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 Te	
	Toxicity icity)	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
		invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.0041 µg/l ⊢d
	Persist	ence and degradabili	ty		
	Compo	onents:			
		ethrin (ISO):			
	Stability	/ in water	:	Hydrolysis: 0 %(3	0 d)
	Bioacc	umulative potential			
	<u>Compo</u>	onents:			
	Deltam	ethrin (ISO):			
	Bioaccu	umulation	:		macrochirus (Bluegill sunfish) factor (BCF): 1,800
	Partition octanol	n coefficient: n- /water	:	log Pow: 4.6	
	Mobilit	y in soil			
	<u>Compo</u>	onents:			
	Distribu	ethrin (ISO): ition among environ- compartments	:	log Koc: 7.2	
		adverse effects a available			



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SECTION 13. DISPOSAL CONSIDERATIONS

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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(deltamethrin (ISO))
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
		(Deltamethrin (ISO))
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Deltamethrin (ISO))
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	÷	yes
Transport in bulk according	, to	Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as	sup	plied.
Domestic regulation		
-		
NOM-002-SCT		
UN number	:	
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.



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Class Packi Label	ng group	: 9 : 11 : 9	I	SO))
•	ial precautions for u		dod horoin aro	for informational nurnoses only, and solely

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

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

SECTION 16. OTHER INFORMATION

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Full text of other abbreviations

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



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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

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/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

MX / Z8