

Permethrin (5%) Formulation

Version 4.0	Revision Date: 28.09.2024		9S Number: 65487-00015	Date of last issue: 30.09.2023 Date of first issue: 20.09.2017
SECTION	1. IDENTIFICATION			
Produ	uct name	:	Permethrin (5%)	Formulation
	afacturer or supplier's	s deta	ils	
Comp	bany	:	MSD	
Addre	ess	:		, 6th floor, Ciudad Autonoma rgentina C1013AAP
Telep	phone	:	908-740-4000	
Emer	gency telephone	:	1-908-423-6000	
E-ma	il address	:	EHSDATASTEV	VARD@msd.com
Reco	mmended use of the	chem	nical and restriction	ons on use
	mmended use ictions on use	:	Veterinary produ Not applicable	ict

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitization	:	Category 1
Aspiration hazard	:	Category 1
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention: P261 Avoid breathing mist or vapors.



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		the workplace. P273 Avoid re	nated work clothing should not be allowed out of lease to the environment. ptective gloves.
		CENTER/ doc P302 + P352 I P331 Do NOT P333 + P313 I vice/ attention.	F ON SKIN: Wash with plenty of water. induce vomiting. f skin irritation or rash occurs: Get medical ad- Take off contaminated clothing and wash it before
		Storage:	
		P405 Store loc	cked up.
		Disposal:	
		P501 Dispose disposal plant.	of 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).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Paraffin oils (petroleum), catalytic dewaxed light	64742-71-8	>= 70 -< 90
Permethrin (ISO)	52645-53-1	>= 5 -< 10

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 if symptoms occur.
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.
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting.



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	t important symptoms	Call a physiciar Never give any : May be fatal if s	urs have person lean forward. n or poison control center immediately. thing by mouth to an unconscious person. swallowed and enters airways.
and effects, both acute and delayed		This product co	allergic skin reaction. Intains a pyrethroid. oning should not be confused with carbamate
Prot	ection of first-aiders	: First Aid respon and use the rec	bhate poisoning. Inders should pay attention to self-protection, commended personal protective equipment Itial for exposure exists (see section 8).
Note	es to physician		atically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Chlorine compounds Carbon oxides
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 personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.





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	ods and materials for nment and cleaning up	For large spills, containment to k can be pumped, container. Clean up remain absorbent. Local or nationa disposal of this r employed in the determine which Sections 13 and	ert absorbent material. provide diking or other appropriate keep material from spreading. If diked material store recovered material in appropriate ning materials from spill with suitable I regulations may apply to releases and material, as well as those materials and items cleanup of releases. You will need to n regulations are applicable. I 5 of this SDS provide information regarding national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Avoid contact with eyes.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed.
		Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Keep tightly closed.
Materials to avoid	:	Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Permethrin (ISO)	52645-53-1	TWA	80 µg/m3 (OEB 3)	Internal
		Wipe limit	800 µg/100 cm²	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.	
	protect products, workers, and the environment.	



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		are require the compo containme	ent technologies suitable for controlling compounds ed to control at source and to prevent migration of und to uncontrolled areas (e.g., open-face nt devices). pen handling.			
Perso	onal protective equip	nent				
	Respiratory protection Filter type Hand protection		e local exhaust ventilation is not available or assessment demonstrates exposures outside the ded guidelines, use respiratory protection.			
			particulates and organic vapor type			
Ма	Material		resistant gloves			
	emarks rotection	: Wear safet If the work mists or ae Wear a fac	louble gloving. by glasses with side shields or goggles. environment or activity involves dusty conditions, erosols, wear the appropriate goggles. eshield or other full face protection if there is a or direct contact to the face with dusts, mists, or			
Skin a	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 potential contaminated clothing.			
Hygie	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.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear, amber
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available



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	Initial bo range	piling point and boiling	:	No data available	
F	Flash point		:	No data available	
E	Evaporation rate		:	No data available	
F	Flammability (solid, gas)		:	Not applicable	
F	Flammability (liquids) Upper explosion limit / Upper flammability limit		:	No data available	
			:	No data available	
		explosion limit / Lower bility limit	:	No data available	
١	Vapor p	oressure	:	< 2 mmHg (25 °C	;)
F	Relative	e vapor density	:	No data available	
F	Relative	e density	:	0,876 (20 °C)	
[Density		:	No data available	
Ś	Solubili Wate	ty(ies) er solubility	:	immiscible	
	Partitior	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
[Decom	position temperature	:	No data available	
N	Viscosit Visc	y osity, dynamic	:	39 Pas	
	Visc	osity, kinematic	:	No data available	
E	Explosi	ve properties	:	Not explosive	
(Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
Γ	Molecul	ar weight	:	No data available	
	Particle Particle	characteristics size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.



ersion D	Revision Date: 28.09.2024		S Number: 65487-00015	Date of last issue: 30.09.2023 Date of first issue: 20.09.2017
Incom	tions to avoid patible materials dous decomposition cts	:	None known. Oxidizing agen No hazardous	ts decomposition products are known.
ECTION	11. TOXICOLOGICAL I	NFO	ORMATION	
Inform expos	nation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact	
Acute	toxicity			
	assified based on availa	ble	information.	
Produ				
Acute	oral toxicity	•	Method: Calcula	stimate: > 5.000 mg/kg ation method
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: Test atmospher Method: Calcula	e: dust/mist
<u>Comp</u>	oonents:			
Paraf	fin oils (petroleum), cat	taly	tic dewaxed lig	nt:
Acute	oral toxicity	:	LD50 (Rat): > 5 Method: OECD	.000 mg/kg Test Guideline 401
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmospher Method: OECD	4 h
Acute	dermal toxicity	:	LD50 (Rabbit): : Method: OECD	> 5.000 mg/kg Test Guideline 402
Perme	ethrin (ISO):			
	oral toxicity	:	LD50 (Rat): 480) - 554 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 2,3 Exposure time: Test atmospher	4 h
Acute	dermal toxicity	:	LD50 (Rabbit): :	> 2.000 mg/kg
Not cla <u>Comp</u>	corrosion/irritation assified based on availa ponents: fin oils (petroleum), cat			



Species Result Seriou Not cla Compo Paraffi Species Result Permer Species Result Result Species Result	t hrin (ISO): Is I s eye damage/eye i Issified based on ava <u>onents:</u> in oils (petroleum),	
Result Permer Species Result Seriou Not cla Compo Paraffi Species Result Permer Species Result Result Result Result Result Result	t hrin (ISO): Is I s eye damage/eye i Issified based on ava <u>onents:</u> in oils (petroleum),	: Rabbit : No skin irritation irritation ailable information. catalytic dewaxed light:
Species Result Seriou Not cla Compo Paraffi Species Result Permer Species Result Result Species Result	as is eye damage/eye i Issified based on ava <u>onents:</u> in oils (petroleum),	: No skin irritation irritation ailable information. catalytic dewaxed light:
Result Seriou Not cla Compo Paraffi Species Result Result Result Result Result Result Result Result	is eye damage/eye i issified based on ava onents: in oils (petroleum),	: No skin irritation irritation ailable information. catalytic dewaxed light:
Seriou Not cla <u>Compo</u> Paraffi Species Result Permer Species Result Result Species Result	assified based on ava onents: in oils (petroleum),	irritation ailable information. catalytic dewaxed light:
Not cla <u>Compo</u> Paraffi Species Result Permer Species Result Result Species Result	assified based on ava onents: in oils (petroleum),	ailable information. catalytic dewaxed light:
Compo Paraffi Species Result Permer Species Result Result Skin se May ca	<u>onents:</u> in oils (petroleum),	catalytic dewaxed light:
Species Result Species Result Result Skin se May ca		
Result Permer Species Result Respir Skin se May ca	S	· Pahhit
Perme Species Result Respir Skin se May ca		. Rabbit
Species Result Respire Skin se May ca		: No eye irritation
Result Respire Skin se May ca	thrin (ISO):	
Respir Skin se May ca	S	: Rabbit
Skin se May ca		: No eye irritation
May ca	atory or skin sensi	tization
-	ensitization	
Deenir	ause an allergic skin	reaction.
-	atory sensitization	
	ssified based on ava	ailable information.
-	onents: in eils (notroloum)	catalytic dewaxed light:
		: Buehler Test
Test Ty Routes		: Skin contact
Specie	s of exposure	: Guinea pig
Method		: OECD Test Guideline 406
Result		: negative
	thrin (ISO):	
Test Ty	уре	: Buehler Test
Routes	ype s of exposure	: Skin contact
Specie	S	: Guinea pig
Result		: positive
Assess	sment	: Probability or evidence of skin sensitization in human
Germ	cell mutagenicity	
Not cla	ssified based on ava	ailable information.
<u>Compo</u>	onents:	
Paraffi	uncilla.	
Genoto		catalytic dewaxed light:



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I		Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
Gend	otoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative
Perm	nethrin (ISO):	
Geno	ptoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
		Test Type: Chromosome aberration test in vitro Result: positive
Geno	otoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Result: negative
		Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Result: negative
		Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Result: negative
		Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Intraperitoneal injection Result: negative
		Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion



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П			Result: positive	
	cell mutagenicity - ssment	:	Weight of eviden cell mutagen.	ce does not support classification as a germ
Carci	nogenicity			
Not cl	assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
Paraf	fin oils (petroleum), ca	taly	tic dewaxed light	t:
Speci		:	Mouse Skin contact	
Expos	cation Route sure time	÷	78 weeks	
Resul	t	:	negative	
Perm	ethrin (ISO):			
Speci		:	Rat	
Resul		:	negative	
Speci	es	:	Mouse	
Resul	t	:	negative	
Repro	oductive toxicity			
-	assified based on availa	ble	information.	
<u>Com</u>	oonents:			
Perm	ethrin (ISO):			
	s on fertility	:		generation reproduction toxicity study
			Species: Rat Application Route	e: Indestion
			Result: negative	
Effect	s on fetal development	:		bined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion
II etot				
	-single exposure assified based on availa	ble	information.	
	-repeated exposure	-	-	
	assified based on availa	ble	information.	
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
Paraf	fin oils (petroleum), ca	taly	tic dewaxed light	t:

	••	-	•
Species NOAEL Applicatio		:	Rat
NOAEL		:	>= 2.000 mg/kg
Applicatio	n Route	:	Skin contact



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Exposure time Method		:	90 Days OECD Test Guid	eline 411
Permethrin (ISO): Species NOAEL Application Route Exposure time		:	Rat 0,2201 mg/l Inhalation 90 Days	
Species NOAEL Application Route Exposure time		:	Rat 175 mg/kg Ingestion 90 Days	

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Paraffin oils (petroleum), catalytic dewaxed light:

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Paraffin oils (petroleum), catalytic dewaxed light:

r aranni ono (perioreani), oatalytio dewaxed right.						
Toxicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203				
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction				
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201				
		NOELR (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201				
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOELR (Daphnia): 10 mg/l Exposure time: 21 d				



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ic toxi	ic toxicity)		Test substance: Water Accommodated Fraction			
Toxici	ty to microorganisms	:	NOEC: > 2,17 mg/l Exposure time: 10 min			
Perme	ethrin (ISO):					
Toxici	Toxicity to fish		LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,00079 mg/l Exposure time: 96 h			
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0,0001 mg/l 3 h		
	Toxicity to algae/aquatic plants		ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 1,13 2 h		
		EC10 (Pseudokirchneriella mg/l Exposure time: 72 h		chneriella subcapitata (green algae)): 0,0023 2 h		
	M-Factor (Acute aquatic tox-		10.000			
icity) Toxici icity)	ty to fish (Chronic tox-	:	: NOEC (Danio rerio (zebra fish)): 0,00041 mg/l Exposure time: 35 d Method: OECD Test Guideline 210			
	ty to daphnia and other ic invertebrates (Chron- city)	: NOEC (Daphnia magna (Water flea)): 0,0047 μg/l Exposure time: 21 d Method: OECD Test Guideline 211		d		
M-Fac toxicit	ctor (Chronic aquatic	:	10.000			
	ty to microorganisms	:	EC50: > 1.000 mg Exposure time: 3	•		
	stence and degradabili	ity				
<u>Comp</u>	oonents:					
Paraf	fin oils (petroleum), ca	taly	tic dewaxed light:			
Biode	gradability	:	Result: Not readily Biodegradation: 3 Exposure time: 28 Method: OECD Te	31 %		
Perm	ethrin (ISO):					
	gradability	:	Result: Not readily Method: OECD Te	y biodegradable. est Guideline 301F		



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-	ccumulative potentia ponents <u>:</u>	I			
	ethrin (ISO):				
Bioac	cumulation	•	: Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 570		
	ion coefficient: n- ol/water	: log Pow: 4,6	37		
Mobi	lity in soil				
No da	ata available				
Other	r adverse effects				
No da	ata available				

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. (Permethrin (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. (Permethrin (ISO))
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,



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Labels EmS (Marine	Code e pollutant	: 9 : III : 9 : F-A, S- : yes	3/78 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 environ mixture	nmental regulations/legis	latio	n specific for the substance or
Argentina. Carcinogenic Substances and Agents Registry.			Not applicable
Control of precursors and essential chemicals for the preparation of drugs.			Not applicable
The ingredients of this pr	oduct are reported in the	follo	owing inventories:
AICS	: not determined		
DSL	: not determined		

IECSC : not determined

SECTION 16. OTHER INFORMATION

Revision Date	:	28.09.2024
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/

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

Full text of 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 -



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

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

AR / Z8