

according to GB/T 16483 and GB/T 17519

Permethrin (5%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
3.0	2024/09/28	1965404-00016	Date of first issue: 2017/09/20

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Permethrin (5%) Formulation				
Manufacturer or supplier's de Company	etai :	i ls MSD				
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331				
Telephone	:	+1-908-740-4000				
Emergency telephone number	:	86-571-87268110				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						
Recommended use Restrictions on use	:	Veterinary product Not applicable				

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	liquid clear, amber odourless				
May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Very toxi aquatic life with long lasting effects.						
GHS Classification Skin sensitisation	:	Category 1				
Aspiration hazard	:	Category 1				
Short-term (acute) aquatic hazard	:	Category 1				
Long-term (chronic) aquatic hazard	:	Category 1				

GHS label elements



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Н	azard pictograms			!
S	ignal word	: Dang	jer	•
Н	azard statements	H317	' May cause	al if swallowed and enters airways. an allergic skin reaction. to aquatic life with long lasting effects.
Ρ	recautionary statements	P261 P272 the w P273	2 Contamina /orkplace. 8 Avoid relea	thing mist or vapours. ted work clothing should not be allowed out of use to the environment. ective gloves.
		P301 CEN P302 P331 P333 vice/ P362 reuse	TER/ doctor 2 + P352 IF (Do NOT in 3 + P313 If s attention. 2 + P364 Tal	ON SKIN: Wash with plenty of water. duce vomiting. kin irritation or rash occurs: Get medical ad- ke off contaminated clothing and wash it before
		Stor P405	age: Store locke	ed up.
				contents/ container to an approved waste

Physical and chemical hazards

Not classified based on available information.

Health hazards

May cause an allergic skin reaction. May be fatal if swallowed and enters airways.

Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

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).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture



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Components

Chemical name	CAS-No.	Concentration (% w/w)
Paraffin oils (petroleum), catalytic dewaxed	64742-71-8	>= 70 -< 90
light		
Permethrin (ISO)	52645-53-1	>= 2.5 -< 10

4. FIRST AID MEASURES

Gei	neral advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If in	nhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In c	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 c	case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
lf sv	wallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.
and	st important symptoms d effects, both acute and ayed	:	May be fatal if swallowed and enters airways. May cause an allergic skin reaction. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
Pro	ptection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Not	tes to physician	:	Treat symptomatically and supportively.
5. FIREI	FIGHTING MEASURES		
Sui	itable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Uns me	suitable extinguishing dia	:	None known.
	ecific hazards during fire- nting	:	Exposure to combustion products may be a hazard to health.
Haz	zardous combustion prod-	:	Chlorine compounds



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u	ıcts			Carbon oxides		
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
	Special or firefig	protective equipment ghters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
6. AC	CIDEN	TAL RELEASE MEAS	SUF	RES		
ti	ive equ	al precautions, protec- ipment and emer- rocedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).	
E	Environmental precautions		:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages	
		s and materials for ment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regular Sections 13 and 1	a absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.	

7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not get on skin or clothing. Avoid breathing mist or vapours. Do not swallow.

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Avoidance of contact		Hai pra ses Kee Tał env	 Avoid contact with eyes. Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure as sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to t environment. Oxidizing agents 			
Stor	age					
	ditions for safe storage erials to avoid	Sto Kee Sto : Do	re locked up. ep tightly close re in accordar	ce with the particular national regulations. the following product types:		
Pack	aging material	: Un	suitable mater	al: None known.		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis								
		exposure)	concentration									
Permethrin (ISO)	52645-53-1	TWA	80 µg/m3 (OEB 3)	Internal								
		Wipe limit	800 µg/100 cm ²	Internal								

Components with workplace control parameters

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 con- tainment devices). Minimize open handling.
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type :	Combined particulates and organic vapour type
Eye/face protection :	Wear safety glasses with side shields or goggles.

	: Combined particulates and organic vapour type
ection	: 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

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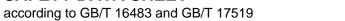


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	and body protection	Additional bo task being po posable suits	n or laboratory coat. ody garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis- s) to avoid exposed skin surfaces. iate degowning techniques to remove potentially d clothing.
Ma	aterial	: Chemical-res	sistant gloves
	emarks ne measures	eye flushing ing place. When using Contaminate workplace. Wash contar The effective engineering appropriate o industrial hys	uble gloving. o chemical is likely during typical use, provide systems and safety showers close to the work- do not eat, drink or smoke. d work clothing should not be allowed out of the ninated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the histrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear, amber
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available





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	wer explosion limit / Lower mmability limit	:	No data available		
Va	apour pressure	:	< 2 mmHg (25 °C	;)	
Re	elative vapour density	:	No data available	9	
Re	elative density	:	0.876 (20 °C)		
De	ensity	:	No data available	•	
So	blubility(ies) Water solubility	:	immiscible		
	artition coefficient: n- tanol/water	:	Not applicable		
	ito-ignition temperature	:	No data available	9	
De	ecomposition temperature	:	No data available	9	
Vi	scosity Viscosity, dynamic	:	39 Pas		
	Viscosity, kinematic	:	No data available	•	
Ex	plosive properties	:	Not explosive		
O	kidizing properties	:	The substance or	mixture is not clas	sified as oxidizing.
M	plecular weight	:	No data available	•	
	article characteristics article size	:	Not applicable		

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Exposure routes

: Inhalation Skin contact

according to GB/T 16483 and GB/T 17519



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Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Ρ	ro	dı	IC	t٠	
	10	u	10	ι.	
		_			

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:

Paraffin oils (petroleum), catalytic dewaxed light:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402
Permethrin (ISO):		
Acute oral toxicity	:	LD50 (Rat): 480 - 554 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 2.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Skin corrosion/irritation		
Not classified based on ava	ilable	information.
Components:		
Paraffin oils (petroleum),	cataly	tic dewaxed light:

Species Result	:	Rabbit
Result	:	No skin irritation

Permethrin (ISO):

Species	:	Rabbit
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Us a			
Result		: No skin irritation	
	us eye damage/eye i assified based on ava		
	onents:		
		atalytic dewaxed light:	
Specie Result		: Rabbit : No eye irritation	
Perme	ethrin (ISO):		
Specie Result		: Rabbit : No eye irritation	
Respi	ratory or skin sensit	sation	
Skin s	sensitisation		
May ca	ause an allergic skin i	eaction.	
-	ratory sensitisation assified based on ava	able information.	
<u>Comp</u>	onents:		
Paraff	in oils (petroleum),	atalytic dewaxed light:	
Test T		: Buehler Test	
Expos Specie	ure routes	: Skin contact : Guinea pig	
Metho		: OECD Test Guideline 406	
Result	:	: negative	
Perme	ethrin (ISO):		
Test T	уре	: Buehler Test	
	ure routes	: Skin contact	
Specie Result		: Guinea pig : positive	
Asses	sment	: Probability or evidence of skin sensitisation in human	S
Germ	cell mutagenicity		
Not cla	assified based on ava	able information.	
<u>Comp</u>	onents:		
		atalytic dewaxed light:	
Genot	oxicity in vitro	: Test Type: Chromosome aberration test in vitro Result: negative	

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Genotoxicity in vivo		Method: OEC Result: negati : Test Type: Ma cytogenetic as Species: Mous Application Ro	ammalian erythrocyte micronucleus test (in vivo ssay)
		Result: negati	
Perm	ethrin (ISO):		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
		Test Type: Ch Result: negati	romosome aberration test in vitro ve
			IA damage and repair, unscheduled DNA syn- malian cells (in vitro) ve
		Test Type: Ch Result: positiv	romosome aberration test in vitro e
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mou Result: negati	se
		Test Type: Ro Species: Mou Result: negati	
		cytogenetic as Species: Rat	oute: Intraperitoneal injection
			itagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) se



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			Application Rout	e Indestion
			Result: positive	
	cell mutagenicity - sment	:	Weight of evider cell mutagen.	nce does not support classification as a ge
Carci	nogenicity			
	assified based on avai	ilable i	nformation.	
	oonents:			
	fin oils (petroleum), o	cataly	•	it:
Speci		:	Mouse	
	ation Route		Skin contact 78 weeks	
Resul		:	negative	
Perm	ethrin (ISO):			
Speci	es	:	Rat	
Resul		:	negative	
Speci	es	:	Mouse	
Resul	t	:	negative	
Repro	oductive toxicity			
Not cl	assified based on avai	ilable i	nformation.	
<u>Comp</u>	oonents:			
	ethrin (ISO):			
Effect	s on fertility	:		generation reproduction toxicity study
			Species: Rat	la na stian
			Application Rout Result: negative	
	s on foetal develop-	:		bined repeated dose toxicity study with the
ment				elopmental toxicity screening test
			Species: Rat	
IÍ			Application Rout Result: negative	

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

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Repeated dose toxicity

Components:

Paraffin oils (petroleum), catalytic dewaxed light:

Species	: Rat
NOAEL	: >= 2,000 mg/kg
Application Route	: Skin contact
Exposure time	: 90 Days
Species NOAEL Application Route Exposure time Method	: OECD Test Guideline 411

Permethrin (ISO):

Species	:	Rat
Species NOAEL	:	0.2201 mg/l
Application Route Exposure time	:	Inhalation
Exposure time	:	90 Days
		-

Species	:	Rat
NOAEL	:	175 mg/kg
Application Route	:	Ingestion
Exposure time	:	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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Paraffin oils (petroleum), catalytic dewaxed light:

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

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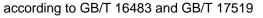


sion	Revision Date: 2024/09/28		0S Number: 65404-00016	Date of last issue: 2024/04/06 Date of first issue: 2017/09/20	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Method: OECD T NOELR (Pseudol mg/l Exposure time: 7 Test substance: N Method: OECD T NOELR (Daphnia Exposure time: 2	Vater Accommodated Fraction est Guideline 201 kirchneriella subcapitata (green algae)): 10 2 h Vater Accommodated Fraction est Guideline 201 (water flea)): 10 mg/l	
Toxic	ity to microorganisms	:	NOEC: > 2.17 mg Exposure time: 1		
Perm	ethrin (ISO):				
	ity to fish	:	LC50 (Lepomis m Exposure time: 9	acrochirus (Bluegill sunfish))։ 0.00079 mզ ծ h	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 0.0001 mg/l 3 h	
Toxic plants	ity to algae/aquatic	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h		
			EC10 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0.00 2 h	
	ctor (Acute aquatic tox-	:	10,000		
icity) Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 3	io (zebra fish)): 0.00041 mg/l 5 d est Guideline 210	
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC (Daphnia Exposure time: 2 Method: OECD T		
	ctor (Chronic aquatic	:	10,000		
toxicit Toxic	y) ity to microorganisms	:	EC50: > 1,000 m Exposure time: 3		

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<u>Com</u> r	stence and degradat	-		
	fin oils (petroleum), gradability	cataly :	Result: Not read Biodegradation Exposure time:	dily biodegradable. : 31 %
	ethrin (ISO): gradability	:		dily biodegradable. Test Guideline 301F
Bioad	cumulative potentia	I		
Comp	oonents:			
Perm	ethrin (ISO):			
	cumulation	:		nis macrochirus (Bluegill sunfish) n factor (BCF): 570
	on coefficient: n- ol/water	:	log Pow: 4.67	
	l ity in soil ata available			
	r adverse effects ata available			
13. DISPO	SAL CONSIDERATIO	ONS		
Diana				
-	osal methods e from residues	:		of waste into sewer. ccordance with local regulations.
Conta	minated packaging	:	dling site for red	rs should be taken to an approved waste han- cycling or disposal. specified: Dispose of as unused product.
14. TRAN	SPORT INFORMATIC	N		
Interr	national Regulations			
	IDG umber er shipping name	:	UN 3082 ENVIRONMEN N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID,
 Class		:	(Permethrin (IS 9	SO))





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Label Enviro IATA UN/IE Prope II Class Packi Label	Donmentally hazardous DGR D No. Pr shipping name ng group		entally hazardous substance, liquid, n.o.s. rin (ISO)) eous
aircra Packi ger ai		: 964 : 964 : yes	
IMDG UN ni	-Code umber er shipping name	: UN 3082	IMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Label EmS	ng group	() cinical : 9 : III : 9 : F-A, S-F : yes	
	sport in bulk according pplicable for product as		f MARPOL 73/78 and the IBC Code
Natio	nal Regulations		
UN n	944/12268 umber er shipping name	: UN 3082 : ENVIRON N.O.S.	IMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
Label	ng group		rin (ISO))
Spec The tr based Shee	ial precautions for use ransport classification(s) d upon the properties of	r provided here the unpackage cations may va	n are for informational purposes only, and solely d material as it is described within this Safety Data ry by mode of transportation, package sizes, and var-

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases



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	_							
	-	tions on Safety Mana	-		s Cher			
	Catalog	gue of Hazardous Cher	nica	als	:	This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.		
	Identific 18218)	cation of Major Hazard	Ins	tallations for Hazar	dous C	hemicals (GB : Not listed		
	Hazardous Chemicals for Priority Management under : Not listed SAWS							
11	Regula	tions on Labour Prot	ect	ion in Workplaces	swhere	e Toxic Substances are Used		
II	-	ue of Highly Toxic Che		•	:	Not listed		
		tion of Environmenta port of Toxic Chemic		anagement on the	e First	Import of Chemicals and the Import		
	China S and Ex	Severely Restricted Top port	kic (Chemicals for Impo	ort :	Not listed		
	Regula	tion on the Administ	rati	on of Precursor C	hemic	als		
	-	gue and Classification of				Not listed		
	Yangtz	e River Protection La	w					
	This pro	oduct does not contain	any	/ dangerous chemi	icals pr	ohibited for inland river transport.		
	The co	mponents of this pro	duc	t are reported in t	the foll	lowing inventories:		
	AICS		:	not determined				
	DSL		:	not determined				
	IECSC		:	not determined				
16. C	16. OTHER INFORMATION							
	Revisio	n Date	:	2024/09/28				
	Furthe	r information						
		s of key data used to the Safety Data	:		arch res	lata from raw material SDSs, OECD sults and European Chemicals Agen- 』/		
		where changes have be ent by two vertical lines		made to the previo	ous vers	sion are highlighted in the body of this		
	Date fo	rmat	:	yyyy/mm/dd				

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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 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 - Verv Persistent and Verv Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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

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