

according to GB/T 16483 and GB/T 17519

Cypermethrin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
3.0	2024/09/28	6116902-00013	Date of first issue: 2020/07/15

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Cypermethrin Formulation
Manufacturer or supplier's de Company	etai :	ils 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 ch	em	ical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	liquid yellow characteristic
Suspected of damaging fertility	/. V	ery toxic to aquatic life with long lasting effects.
GHS Classification		
Reproductive toxicity	:	Category 2
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal word	:	Warning



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Haza	rd statements		ted of damaging fertility. ic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not h and understoo P273 Avoid re	lease to the environment. otective gloves/ protective clothing/ eye protec-
		Response: P308 + P313 I attention. P391 Collect s	F exposed or concerned: Get medical advice/
		Storage: P405 Store loo	sked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
-	ical and chemical haz lassified based on avai		
	h hazards		
Susp	ected of damaging ferti	lity.	
	onmental hazards		
•	·		with long lasting effects.
Othe	r hazards which do no	ot result in classifica	ition

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Soya oil	8001-22-7	>= 90 -<= 100
Cypermethrin	52315-07-8	>= 3 -< 10

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.

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	lf inhal	ed	:	If inhaled, remove Get medical atten	
	In case	e of skin contact	:	of water. Remove contamir Get medical atten Wash clothing bet	
	In case	e of eye contact	:	Flush eyes with w	rater as a precaution. tion if irritation develops and persists.
	lf swall	owed	:	If swallowed, DO Get medical atten Rinse mouth thore	NOT induce vomiting. tion.
		nportant symptoms ects, both acute and d	:	Suspected of dam	
	Protect	tion of first-aiders	:	and use the recon	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).
	Notes t	to physician	:	Treat symptomatic	cally and supportively.
5. FI	REFIG	HTING MEASURES			
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specifi fighting		:	Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	lous combustion prod-	:	Carbon oxides Nitrogen oxides (N	NOx)
	Specifi ods	c 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
	Specia for firef	l protective equipment ighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. rective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment.

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	uipment and emer- procedures			ing advice (see section 7) and personal pro- recommendations (see section 8).
Enviro	nmental 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
	ds and materials for nment and cleaning up	:	For large spills, pument to keep mat be pumped, store Clean up remaining bent. Local or national up posal of this mate employed in the of mine which regula Sections 13 and 1	t 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- trial, as well as those materials and items deanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding tional requirements.

7. HANDLING AND STORAGE

Handling	
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 breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	: Oxidizing agents
Storage	
Conditions for safe storage	 Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

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Packaging material

: Unsuitable material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components		CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cypermethrin		52315-07-8	TWA	50 µg/m3 (OEB 3)	Internal
		Further informa	ation: DSEN, Sk		late ve al
			Wipe limit	100 µg/100 cm2	Internal
Engineering measures	:	technologies t less quick con All engineerin design and op protect produc	o control airborr inections). g controls should perated in accord cts, workers, and	controls and manufac le concentrations (e.c d be implemented by lance with GMP princ the environment. require special contai	g., drip- facility ciples to
Personal protective equipm	ent				
Respiratory protection	:	sure assessm ommended gu	ent demonstrate uidelines, use re	ilation is not available s exposures outside spiratory protection. ganic vapour type	
Filter type Eye/face protection	:	Wear safety g If the work en- mists or aeros Wear a facesh	lasses with side vironment or act ols, wear the ap nield or other full	shields or goggles. ivity involves dusty co propriate goggles. face protection if the he face with dusts, m	ere is a
Skin and body protection Hand protection Material	:	Work uniform Chemical-resi	or laboratory co	at.	
Material	•	Chemical-lesi	stant gioves		
Hygiene measures	:	eye flushing s ing place. When using d Wash contam The effective of engineering co appropriate de industrial hygi	ystems and safe o not eat, drink o inated clothing b operation of a fa ontrols, proper p egowning and de		he work- eview of uipment, dures,

Components with workplace control parameters

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid



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Colou		:	yellow	
Odour		:	characteristic	
Odour	[·] Threshold	:	No data available	9
рН		:	No data available	9
Meltin	g point/freezing point	:	-30 °C	
Initial range	boiling point and boiling	:	210 °C	
Flash	point	:	208 °C	
Evapo	pration rate	:	No data available	9
Flamn	nability (solid, gas)	:	Not applicable	
Flamn	nability (liquids)	:	Not applicable	
	explosion limit / Upper ability limit	:	No data available	9
	explosion limit / Lower ability limit	:	No data available	9
Vapou	ır pressure	:	No data available	9
Relativ	ve vapour density	:	No data available	9
Relativ	ve density	:	0.92 - 0.94	
Densit	ty	:	No data available	9
	ility(ies) ater solubility	:	insoluble	
	on coefficient: n-	:	Not applicable	
	ol/water gnition temperature	:	No data available	9
Decor	nposition temperature	:	No data available	9
Viscos Vis	sity cosity, kinematic	:	No data available	9
Explos	sive properties	:	Not explosive	



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ersion .0	Revision Date: 2024/09/28		S Number: 16902-00013	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15
Oxidiz	zing properties	:	The substance	or mixture is not classified as oxidizing
	cular weight	:	No data availab	-
Partic	le characteristics le size	:	Not applicable	
0. STABI	LITY AND REACTIVIT	Y		
Possi tions	tivity nical stability bility of hazardous reac itions to avoid	: : > :	Stable under no	s a reactivity hazard. ormal conditions. strong oxidizing agents.
Incom	npatible materials rdous decomposition	:	Oxidizing agent	s lecomposition products are known.
1. TOXIC			1	
	SOLOGICAL INFORMA	ATION :	Inhalation Skin contact Ingestion Eye contact	
Expos Acute	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
Expos Acute Not cl	sure routes • toxicity lassified based on avai	:	Inhalation Skin contact Ingestion Eye contact	
Expos Acute Not cl <u>Prode</u>	sure routes • toxicity lassified based on avai	:	Inhalation Skin contact Ingestion Eye contact information.	timate: > 5,000 mg/kg tion method
Expos Acute Not cl <u>Prode</u> Acute	sure routes e toxicity lassified based on avail uct:	:	Inhalation Skin contact Ingestion Eye contact information. Acute toxicity es Method: Calcula	tion method timate: > 5,000 mg/kg
Expos Acute Not cl Acute Acute	sure routes e toxicity lassified based on avail uct: e oral toxicity	:	Inhalation Skin contact Ingestion Eye contact information. Acute toxicity es Method: Calcula Acute toxicity es	tion method timate: > 5,000 mg/kg
Expos Acute Not cl Acute Acute	sure routes e toxicity lassified based on avail <u>uct:</u> e oral toxicity e dermal toxicity	:	Inhalation Skin contact Ingestion Eye contact information. Acute toxicity es Method: Calcula Acute toxicity es	tion method timate: > 5,000 mg/kg
Expos Acute Not cl Acute Acute <u>Comp</u>	sure routes e toxicity lassified based on avail <u>uct:</u> e oral toxicity e dermal toxicity <u>ponents:</u>	:	Inhalation Skin contact Ingestion Eye contact information. Acute toxicity es Method: Calcula Acute toxicity es	tion method timate: > 5,000 mg/kg tion method
Expos Acute Not cl Acute Acute <u>Comp</u>	sure routes e toxicity lassified based on avail <u>uct:</u> e oral toxicity e dermal toxicity <u>conents:</u> rmethrin:	:	Inhalation Skin contact Ingestion Eye contact information. Acute toxicity es Method: Calcula Acute toxicity es Method: Calcula	tion method timate: > 5,000 mg/kg tion method lle): 367 mg/kg
Expos Acute Not cl Acute Acute Comp Acute	sure routes e toxicity lassified based on avail <u>uct:</u> e oral toxicity e dermal toxicity <u>conents:</u> rmethrin:	:	Inhalation Skin contact Ingestion Eye contact information. Acute toxicity es Method: Calcula Acute toxicity es Method: Calcula	tion method timate: > 5,000 mg/kg tion method lle): 367 mg/kg): 891 mg/kg



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Components:

Cypermethrin:

Species	:	Rabbit
Method	:	Draize Test
Species Method Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Cypermethrin:

Species Result Method	:	Rabbit
Result	:	No eye irritation
Method	:	Draize Test

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Cypermethrin:

Test Type	:	Magnusson-Kligman-Test
Species	:	Guinea pig
Assessment	:	Did not cause sensitisation on laboratory animals.
Test Type Species Assessment Result	:	Not a skin sensitizer.

Germ cell mutagenicity

Not classified based on available information.

Components:

Cypermethrin:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: negative
	Test Type: Microbial mutagenesis assay (Ames test) Result: negative
	Test Type: sister chromatid exchange assay Test system: Human lymphocytes Result: negative
Genotoxicity in vivo	: Test Type: In vivo micronucleus test

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Asse Carc Not c	n cell mutagenicity - ssment i nogenicity lassified based on avai oductive toxicity	Species: Rat Application Ro Result: positive Test Type: In Species: Rat Application Ro Result: negative : Weight of evid cell mutagen.	e vivo micronucleus test oute: Dermal e vivo micronucleus test oute: Intraperitoneal injection
Susp	ected of damaging ferti	lity.	
	ponents:		
	ermethrin:		
LIEC	ts on fertility		male pute: Oral L: 68 mg/kg body weight
	ts on fertility	Species: Rat, Application Ro Fertility: LOAE Symptoms: Ef ticular effects Test Type: Fer Species: Rat, Application Ro Fertility: NOAE	male oute: Oral L: 68 mg/kg body weight fects on fertility, male reproductive effects, Te rtility male
	ts on foetal develop-	Species: Rat, Application Ro Fertility: LOAE Symptoms: Ef ticular effects Test Type: Fet Species: Rat, Application Ro Fertility: NOAE Target Organs Test Type: Thi Species: Mous Application Ro General Toxic Symptoms: No reproduction c	male oute: Oral :L: 68 mg/kg body weight fects on fertility, male reproductive effects, Te rtility male oute: Oral :L: 6.25 mg/kg body weight :: male reproductive organs, Testis ree-generation reproduction toxicity study se



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II			Symptoms: No	effects on foetal development
			test Species: Rat Application Rou Teratogenicity:	roduction/Developmental toxicity screening ute: Oral NOAEL: 17.5 mg/kg body weight effects on foetal development
Repr sessi	oductive toxicity - As- ment	:		e of adverse effects on sexual function and on animal experiments.
	T - single exposure classified based on ava	ilable	information.	
<u>Com</u>	ponents:			
Суре	ermethrin:			
	et Organs ssment	:	Nervous systen May cause dan	
	T - repeated exposure			
	classified based on ava	ilable	information.	
-	ponents:			
Soya				
Spec		:	Rat	
NOA		:	4,000 mg/kg Ingestion	
Expo	cation Route sure time	:	90 h	
Суре	ermethrin:			
Spec	ies	:	Rat	
NOA	EL cation Route	:	5 mg/kg Oral	
Expo	sure time	:	3 Months	
	et Organs	:	Central nervous	s system
Spec		:	Rabbit	
NOA Appli	EL cation Route	:	12.5 mg/kg Oral	
Expo	sure time	:	3 Months	
Targe	et Organs	:	Central nervous	s system



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	sure time	:	1 yr	
Symp	otoms	:	anxiety, central	nervous system effects
Spec		:	Rabbit	
NOA Appli	⊏∟ cation Route		20 mg/kg Dermal	
Expo	sure time	:	3 Weeks	
	et Organs otoms	:	male reproducti reduced body w	ve organs reight gain, reduced food consumption
-	ration toxicity			
	lassified based on ava			
Expe	rience with human e	xposu	ire	
<u>Com</u>	ponents:			
	ermethrin:			
Gene	eral Information	:	Symptoms: mus Remarks: Base	Nervous system scle weakness, central nervous system effects d on Human Evidence non side effects are: esthesias
Furth	ner information			
<u>Com</u>	ponents:			
Суре	ermethrin:			
Rema	arks	:	Dermal absorpt	ion possible
12. ECOL	OGICAL INFORMATI	ON		
Ecot	oxicity			
Com	ponents:			
Cype	ermethrin:			
	ity to fish	:	EC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 0.39 μg/l 96 h
			EC50 (Cyprinoo μg/l Exposure time:	don variegatus (sheepshead minnow)): 0.95 96 h
	ity to daphnia and othe tic invertebrates	er :	EC50 (Daphnia Exposure time:	magna (Water flea)): 0.0036 µg/l 48 h
			EC50 (America Exposure time:	mysis): 0.00475 μg/l 48 h
			11 / 16	
			11/10	



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IIM-	Factor (Acute aquatic tox-	:	100,000	
ici	ty)	•		
lo	xicity to fish (Chronic tox- ty)	:	NOEC (Pimephale Exposure time: 30	es promelas (fathead minnow)): 0.14 μg/l) d
aq	xicity to daphnia and other uatic invertebrates (Chron- toxicity)	:	NOEC (Mysidops Exposure time: 28	s bahia (opossum shrimp)): 0.000781 µg/l } d
M-	Factor (Chronic aquatic kicity)	:	100,000	
Pe	rsistence and degradabili	ity		
<u>Cc</u>	omponents:			
Cy	permethrin:			
St	ability in water	:	Degradation half I	ife (DT50): 17 d
Bi	oaccumulative potential			
<u>Cc</u>	omponents:			
	ya oil:			
	rtition coefficient: n- tanol/water	:	log Pow: > 4 Remarks: Calcula	tion
Cy	permethrin:			
Bio	paccumulation	:	Bioconcentration	factor (BCF): 488
	rtition coefficient: n- tanol/water	:	log Pow: 6.6	
Мо	obility in soil			
<u>Cc</u>	omponents:			
	permethrin:			
	stribution among environ- ental compartments	:	log Koc: 5.58	
	ability in soil	:		
Ot	her adverse effects			
No	o data available			
13. DIS	POSAL CONSIDERATION	IS		
Di	sposal methods			
	aste from residues	:	Do not dispose of	
Co	ontaminated packaging	:		ordance with local regulations. should be taken to an approved waste han- ling or disposal.



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If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Cypermethrin)
Class	:	9
Packing group	÷	
	-	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Cypermethrin)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S. (Cypermethrin)
Class	•	9
Packing group	÷	Ĩ
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Trenewert in bulls are sailing	4	Annow II of MARROL 72/70 and the IRC Code

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268 UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cypermethrin)
Class	:	9
Packing group	:	III
Labels	:	9



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Marine pollutant : no

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.

15. REGULATORY INFORMATION

National regulatory		Ξ.			
Law on the Prevention and Control of Occupational Diseases					
	ety Management of Hazardous C	hen	nicals		
Catalogue of Hazard	lous Chemicals	:	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.		
Identification of Major Hazard Installations for Hazardous Chemicals (GB : Not listed 18218)					
Hazardous Chemica SAWS	Is for Priority Management under	:	Not listed		
Regulations on Labour Protection in Workplaces where Toxic Substances are Used					
Catalogue of Highly	Toxic Chemicals	:	Not listed		
Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals					
China Severely Rest and Export	ricted Toxic Chemicals for Import	:	Not listed		
Regulation on the	Administration of Precursor Che	mica	als		
Catalogue and Class	sification of Precursor Chemicals	:	Not listed		
Yangtze River Prote	ection Law				
This product does not contain any dangerous chemicals prohibited for inland river transport.					
The components of this product are reported in the following inventories: AICS : not determined					
50					

DSL

: not determined



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16. OTHER INFORMATION

Revision Date: 2024/09/28Further information: Internal technical data, data from raw material SDSs, OECD
eChem Portal search results and European Chemicals Agen-
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.

Date format : yyyy/mm/dd

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 - Very Persistent and Very 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



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

CN / EN