

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
3.0	2024/09/28	10811347-00008	Date of first issue: 2022/07/08

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Benzylpenicillin / Dihydrostreptomycin Sulphate Formulation			
Manufacturer or supplier's details Company : 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	::	suspension off-white, white No data available
		n. May cause allergy or asthma symptoms or breathing difficul- organs through prolonged or repeated exposure. Toxic to
GHS Classification		
Respiratory sensitisation	:	Category 1
Skin sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 1
Short-term (acute) aquatic hazard	:	Category 2

GHS label elements

according to GB/T 16483 and GB/T 17519



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Hazaı	rd pictograms	:	
Signa	al word	: Danger	
Hazaı	rd statements	H334 May caus difficulties if inh	lamage to organs through prolonged or repeated
Preca	autionary statements	P264 Wash ski P270 Do not ea P272 Contamin the workplace. P273 Avoid rele P280 Wear pro	eathe mist or vapours. n thoroughly after handling. at, drink or smoke when using this product. hated work clothing should not be allowed out of ease to the environment. tective gloves. piratory protection.
		P304 + P340 IF keep comfortab P333 + P313 If vice/ attention. P342 + P311 If POISON CENT	F ON SKIN: Wash with plenty of water. F INHALED: Remove person to fresh air and ble for breathing. skin irritation or rash occurs: Get medical ad- experiencing respiratory symptoms: Call a FER/ doctor. ake off contaminated clothing and wash it before
		Disposal: P501 Dispose o disposal plant.	of contents/ container to an approved waste
	• • • • • • • • • • • • • • • • • • • •	I-	

Physical and chemical hazards

Not classified based on available information.

Health hazards

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.

Environmental hazards

Toxic to aquatic life.



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Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Dihydrostreptomycin sulphate	5490-27-7	>= 20 -< 30
Benzylpenicillin	61-33-6	>= 20 -< 25
Sodium hydroxymethanesulphinate	149-44-0	>= 0.1 -< 1

4. FIRST AID MEASURES

General 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
If inhaled	:	advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of skin contact	:	Get medical attention. 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.
In case of eye contact	:	Thoroughly clean shoes before reuse. Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. Causes damage to organs through prolonged or repeated exposure.
		Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).
Protection 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).
Notes to physician	:	Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES



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Suita	ble extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuitable extinguishing media		None known.	
	Specific hazards during fire- fighting		Exposure to comb	pustion products may be a hazard to health.
Haza ucts	Hazardous combustion prod- ucts		Carbon oxides Metal oxides	
Spec ods	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 so. Evacuate area.	
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.

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 pro- tective 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.
Methods and materials for containment and cleaning up	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.



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Sections 13 and 15 of this SDS provide information regarding certain local or national 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 get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. 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 Materials to avoid	:	Keep in properly labelled containers. Keep tightly closed. Store in accordance with the particular national regulations. Do not store with the following product types:
		Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Dihydrostreptomycin sulphate	5490-27-7	TWA	0.4 mg/m3 (OEB 2)	
	Further informa	ation: OTO		
		Wipe limit	Not required	
Benzylpenicillin	61-33-6	TWA	600 µg/m3 (OEB	Internal

according to GB/T 16483 and GB/T 17519



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11			2)	
	Further information: RSEN, DSEN			
		Wipe limit	100 µg/100 cm2	Internal
Engineering measures :	technologies t less quick con All engineering design and op protect produc	o control airborr nections). g controls should erated in accord cts, workers, and	controls and manufactive concentrations (e.g d be implemented by dance with GMP prine the environment. require special conta	g., drip- facility ciples to
Personal protective equipmen	t			
Respiratory protection : Filter type : Eye/face protection :	sure assessm ommended gu Particulates ty Wear safety g If the work env mists or aeros Wear a facesh	ent demonstrate idelines, use re- pe lasses with side vironment or act ols, wear the ap nield or other full	ilation is not availables exposures outside spiratory protection. shields or goggles. ivity involves dusty copropriate goggles. face protection if the he face with dusts, m	the rec- onditions, ere is a
Skin and body protection : Hand protection Material :	Work uniform Chemical-resi	or laboratory co stant gloves	at.	
Hygiene measures :	If exposure to eye flushing s ing place. When using d Contaminated workplace. Wash contam The effective of engineering co appropriate de industrial hygi	chemical is likel ystems and safe o not eat, drink o work clothing s inated clothing b operation of a fa ontrols, proper p gowning and de	hould not be allowed	the work- out of the review of quipment, edures,

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	off-white, white
Odour	:	No data available
Odour Threshold	:	No data available



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ŗ	pН		:	5.0 - 7.2	
ſ	Melting	point/freezing point	:	No data available	9
	Initial bo range	piling point and boiling	:	No data available	3
F	Flash p	oint	:	No data available	9
E	Evapora	ation rate	:	No data available	9
F	Flamma	ability (solid, gas)	:	Not applicable	
F	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available)
		explosion limit / Lower bility limit	:	No data available	
١	Vapour	pressure	:	No data available)
F	Relative	e vapour density	:	No data available)
F	Relative	e density	:	No data available	9
[Density		:	1.14 - 1.18 g/cm ³	1
ŝ	Solubilit Wate	ty(ies) er solubility	:	No data available	
	Partitior octanol/	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
[Decomp	position temperature	:	No data available)
١	Viscosit Visco	y osity, kinematic	:	No data available	
E	Explosiv	ve properties	:	Not explosive	
(Oxidizin	ng properties	:	The substance of	r mixture is not classified as oxidizing.
ſ	Molecul	ar weight	:	No data available	9
	Particle Particle	characteristics size	:	No data available	9



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Particle	e Size Distribution	D50 = 15 µm	
		D90 = 30 µm	
10. STABIL	ITY AND REACTIVITY		
Reactiv		Not classified as a reactivity hazard	d.
	cal stability ility of hazardous reac-	Stable under normal conditions. Can react with strong oxidizing age	ents.
Conditi	ons to avoid	None known.	
	batible materials lous decomposition	Oxidizing agents No hazardous decomposition prod	ucts are known.
produc	ts		
11. TOXICC	DLOGICAL INFORMAT		
Exposu	ure routes	Inhalation	
		Skin contact Ingestion	
		Eye contact	
	toxicity	- (
	ssified based on availa	nformation.	
	onents:		
	ostreptomycin sulpha	LDE0 (Bot): 0.000 25.000 mg/kg	
Acute	oral toxicity	LD50 (Rat): 9,000 - 25,000 mg/kg	
		LD50 Oral (Mouse): 30,000 mg/kg	
Benzy	lpenicillin:		
Acute of	oral toxicity	LD50 (Rat): 8,000 mg/kg	
		LD50 (Mouse): > 5,000 mg/kg	
	oxicity (other routes of stration)	LD50 (Mouse): 3,500 mg/kg Application Route: Intraperitoneal	
		LD50 (Mouse): 329 mg/kg Application Route: Intravenous	
Sodiur	n hydroxymethanesu	nate:	

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423
		Assessment: The substance or mixture has no acute oral tox-

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			icity	
Acute	e dermal toxicity	:		000 mg/kg Test Guideline 402 le substance or mixture has no acute derma
-	corrosion/irritation	ailable	information.	
Com	ponents:			
Sodi	um hydroxymethane	sulph	inate:	
Spec Resu		:	Rat No skin irritatior	I
	ous eye damage/eye			
	lassified based on av	ailable	information.	
	ponents:			
	um hydroxymethane	sulph		
Spec Resu Meth	lt	:	Rabbit No eye irritation OECD Test Gui	deline 405
Resp	piratory or skin sens	itisatio	on	
	sensitisation cause an allergic skin	reaction	on.	
Resp	piratory sensitisation	1		
May	cause allergy or asthr	na syn	ptoms or breathing	ng difficulties if inhaled.
<u>Com</u>	ponents:			
	ylpenicillin:			
Test	Type sure routes	:	Local lymph noo Dermal	de assay (LLNA)
Expo Spec		:	Mouse	
Resu		:	Weak sensitizer	
Test		:	Maximisation Te	est
Expo	sure routes	:	Dermal	
Spec Resu		:	Guinea pig positive	
Rema		:		rom similar materials
Resu	lt	:	Strong sensitize	r
			0 / 10	



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Remarks

: Based on human experience.

Sodium hydroxymethanesulphinate:

Test Type Exposure routes Species Method Result	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Dihydrostreptomycin sulphate:

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro
	Test system: Human lymphocytes
	Result: negative

Benzylpenicillin:

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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Sodium hydroxymethanesulphinate:

Genotoxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: positive
Genotoxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: positive
Germ cell mutagenicity - Assessment	Positive result(s) from in vivo mammalian somatic cell muta- genicity tests.

Carcinogenicity

Not classified based on available information.



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Components:

Dihydrostreptomycin sulphate:

Species	: Rat
Application Route	: Oral
Exposure time	: 2 Years
NÓAEL	: 5 mg/kg body weight
Species Application Route Exposure time NOAEL Result	: negative
Result	: negative

Reproductive toxicity

Not classified based on available information.

Components:

Dihydrostreptomycin sulphate:

Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 5 mg/kg body weight Test Type: Embryo-foetal development Species: Guinea pig Application Route: Intramuscular General Toxicity Maternal: LOAEL: 100 - 200 mg/kg body weight Developmental Toxicity: NOAEL: 10 mg/kg body weight Result: Maternal toxicity observed., Embryotoxic effects and adverse effects on the offspring were detected.
Benzylpenicillin:		
Effects on fertility	:	Test Type: Fertility Species: Mouse Result: No effects on fertility
		Test Type: Fertility Species: Rat Result: No effects on fertility
		Test Type: Fertility Species: Rabbit Result: No effects on fertility
Effects on foetal develop- ment	:	Test Type: Development Species: Mouse Result: No effects on foetal development
		Test Type: Development Species: Rat Result: No effects on foetal development

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			Test Type: Develo Species: Rabbit Result: No effects	opment s on foetal development	
Sodiu	m hydroxymethanesi	ulphir	nate:		
Effects	s on fertility		reproduction/deve Species: Rat Application Route	ined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion est Guideline 422	
Effects on foetal develop- : ment			Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: positive		
Repro sessm	ductive toxicity - As- ient		Some evidence o animal experimer	f adverse effects on development, based on hts.	
	- single exposure assified based on avail	able ir	nformation.		

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

Dihydrostreptomycin sulphate:

Assessment

: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Dihydrostreptomycin sulphate:

Species	:	Guinea pig
LÖAEL	:	40 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Target Organs	:	ear
Exposure time Target Organs Symptoms	:	hearing loss
Species LOAEL Application Route	:	Cat
LOAEL	:	100 mg/kg
Application Route	:	Oral

SAFETY DATA SHEET according to GB/T 16483 and GB/T 17519



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Exposure time Target Organs Symptoms	: 60 d : ear : ataxia, hearing l	loss, Reduced body weight
Species LOAEL Application Route Exposure time Target Organs Symptoms	: Cat : 300 mg/kg : Oral : 21 d : ear : ataxia bearing l	loss, Reduced body weight

Sodium hydroxymethanesulphinate:

Species NOAEL Application Route Exposure time Method	: Rat
NOAEL	: 600 mg/kg
Application Route	: Ingestion
Exposure time	: 13 Weeks
Method	: OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Dihydrostreptomycin sulphate:	
General Information :	Symptoms: Erythema, hearing loss, Nausea, Rash, Vomiting, Headache, hypotension
Benzylpenicillin:	
Inhalation :	Symptoms: Allergic reactions, Abdominal pain, bron- chospasm, skin rash

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 hrs Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.6 mg/l Exposure time: 48 hrs Method: OECD Test Guideline 202
Toxicity to algae/aquatic	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): >

SAFETY DATA SHEET according to GB/T 16483 and GB/T 17519



sion	Revision Date: 2024/09/28		9S Number: 811347-00008	Date of last issue: 2024/04/06 Date of first issue: 2022/07/08
plants			100 mg/l Exposure time: 7 Method: OECD 7	2 hrs Fest Guideline 201
			mg/l Exposure time: 7	celis subcapitata (freshwater green alga)): 50 2 hrs ⁻ est Guideline 201
			Exposure time: 7	n algae): 0.74 mg/l 2 hrs ⁻ est Guideline 201
			Exposure time: 7	en algae): 0.14 mg/l 2 hrs ⁻ est Guideline 201
	tor (Acute aquatic tox-	:	1	
icity) Toxicit	y to microorganisms	:	EC50: > 500 mg, Exposure time: 3 Test Type: Resp Method: OECD 1	h
			NOEC: 5 mg/l Exposure time: 3 Test Type: Resp Method: OECD 1	
Sodiui	m hydroxymethanesu	lphi	nate:	
	y to fish	:		idus (Golden orfe)): > 10,000 mg/l 6 h
	y to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h ⁻ est Guideline 202
Toxicit plants	y to algae/aquatic	:	Exposure time: 7	esmus subspicatus (green algae)): 370 mg/l 2 h ⁻ est Guideline 201
			Exposure time: 7	esmus subspicatus (green algae)): 10 mg/l 2 h ⁻ est Guideline 201
Toxicit icity)	y to fish (Chronic tox-	:	Exposure time: 3	rio (zebra fish)): 13.5 mg/l 5 d Fest Guideline 210



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	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2	nagna (Water flea)): 8 mg/l 1 d ēst Guideline 211		
Toxic	ity to microorganisms	:	NOEC: 10 mg/l Exposure time: 4 h			
Persi	stence and degradabil	ity				
<u>Com</u>	oonents:					
Benz	ylpenicillin:					
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	70.10 %		
Sodiu	um hydroxymethanesu	lph	inate:			
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	77 %		
Bioad	ccumulative potential					
Com	oonents:					
Sodiu	um hydroxymethanesu	lph	inate:			
	ion coefficient: n- ol/water	:	log Pow: < 0.3			
	lity in soil ata available					
	r adverse effects ata available					
13. DISPC	SAL CONSIDERATION	IS				
UISPO	osal 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 han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.



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14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels Environmentally hazardous	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no

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	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Marine pollutant	:	no

Special precautions for user

Not applicable



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15. REGULATORY INFORMATION

		al Dis	seases		
Regulations on Safety Mana	-				
Catalogue of Hazardous Che	-	:	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 Chemicals for Prid SAWS	ority Management under	:	Not listed		
Regulations on Labour Protection in Workplaces where Toxic Substances are Used					
Catalogue of Highly Toxic Ch	emicals	:	Not listed		
Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals					
China Severely Restricted To and Export	China Severely Restricted Toxic Chemicals for Import : Not listed and Export				
Regulation on the Administration of Precursor Chemicals Catalogue and Classification of Precursor Chemicals : Not listed					
Ū.					
Yangtze River Protection La	aw				
This product does not contair	n any dangerous chemic	als pr	ohibited for inland river transport.		
The components of this pro AICS	oduct are reported in th : not determined	e fol	lowing inventories:		
DSL	: not determined				
IECSC	: not determined				
6. OTHER INFORMATION					
Revision Date	: 2024/09/28				
Further information					



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compile the Safety Data Sheet

eChem Portal search results and European Chemicals Agency, 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 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.



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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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