

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
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#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Benzylpenicillin / Streptomycin Sulphate Solid Formulation
<b>Manufacturer or supplier's de</b> Company	eta	ils MSD
Address	:	126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone number	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the che	em	ical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

#### 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
Serious eye damage/eye irri- tation	:	Category 2B
Respiratory sensitisation	:	Category 1
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure	:	Category 1 (Kidney, inner ear)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

#### **GHS** label elements



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Haza	rd pictograms		!
Signa	al word	: Danger	• •
Haza	rd statements	H320 Causes H334 May cau difficulties if inl H360D May da H372 Causes prolonged or re	se an allergic skin reaction. eye irritation. se allergy or asthma symptoms or breathing
Preca	autionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P272 Contamin the workplace. P273 Avoid rel P280 Wear pro-	reathe dust. in thoroughly after handling. at, drink or smoke when using this product. nated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protec-
		CENTER/ doct P302 + P352 I P304 + P340 I keep comfortal P305 + P351 + for several min easy to do. Co P308 + P313 I attention. P333 + P313 I vice/ attention. P337 + P313 I tention. P342 + P311 I POISON CEN	F exposed or concerned: Get medical advice/ f skin irritation or rash occurs: Get medical ad- f eye irritation persists: Get medical advice/ at- f experiencing respiratory symptoms: Call a TER/ doctor. Fake off contaminated clothing and wash it before



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#### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards which do not result in classification

Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :		Mixture
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#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzylpenicillin	61-33-6	>= 30 -< 60
Streptomycin sulphate	3810-74-0	>= 30 -< 60

#### 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 advice.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. May cause an allergic skin reaction. Causes eye irritation. May cause allergy or asthma symptoms or breathing difficul-



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	ection of first-aiders s to physician	<ul> <li>Causes damage exposure.</li> <li>Excessive export other respirato tive airways dy Contact with duthe skin.</li> <li>First Aid resport and use the rewishen the poter</li> </ul>	he unborn child. ge to organs through prolonged or repeated osure may aggravate preexisting asthma and ry disorders (e.g. emphysema, bronchitis, reac- sfunction syndrome). ust can cause mechanical irritation or drying of nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8). natically and supportively.
5. FIREFI	GHTING MEASURES		
Unsu	ble extinguishing media itable extinguishing	<ul> <li>Water spray Alcohol-resista Carbon dioxide Dry chemical</li> <li>None known.</li> </ul>	
medi Spec fighti	ific hazards during fire-	concentrations potential dust e	ng dust; fine dust dispersed in air in sufficient , and in the presence of an ignition source is a explosion hazard. ombustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	: Carbon oxides Metal oxides	
Spec ods	ific extinguishing meth-	cumstances ar Use water spra	ing measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. naged containers from fire area if it is safe to do
	ial protective equipment efighters	Evacuate area : In the event of	fire, wear self-contained breathing apparatus. protective equipment.

### Personal precautions, protective equipment and emergency 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. 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 inment and cleaning up	over the area to Add excess liqu Soak up with ine Avoid dispersal with compresse Dust deposits st es, as these ma leased into the a Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu	ith absorbents and place a damp covering minimise entry of the material into the air. id to allow the material to enter into solution. ert absorbent material. of dust in the air (i.e., clearing dust surfaces d air). nould not be allowed to accumulate on surfac- y form an explosive mixture if they are re- atmosphere in sufficient concentration. hing materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding national requirements.
7. HANDL	ING AND STORAGE		
Tech	nical measures	causing an expl Provide adequa	may accumulate and ignite suspended dust osion. te precautions, such as electrical grounding inert atmospheres.
Local	/Total ventilation		ilation is unavailable, use with local exhaust
Advic	e on safe handling	: Do not get on sk Do not breathe Do not swallow. Do not get in ey Wash skin thoro	dust.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment 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 respiratory irritants or sensitisers.

Minimize dust generation and accumulation.

Keep container closed when not in use.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Do not eat, drink or smoke when using this product.

Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.



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Materials to avoid

: Do not store with the following product types: Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Benzylpenicillin	61-33-6	TWA	600 μg/m3 (OEB 2)	Internal	
	Further inform	nation: RSEN, DS	SEN		
		Wipe limit	100 µg/100 cm2	Internal	
Streptomycin sulphate	3810-74-0	TWA	OEB 2 (>= 100 < 1,000 μg/m3)	Internal	
	Further information: DSEN				

Engineering measures	:	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Personal protective equipm	ent	
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	:	Particulates type
Hand protection Material	:	Chemical-resistant gloves
Eye protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection Hygiene measures	: :	<ul> <li>Work uniform or laboratory coat.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Contaminated work clothing should not be allowed out of the workplace.</li> <li>Wash contaminated clothing before re-use.</li> <li>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</li> </ul>



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#### use of administrative controls.

9. PHYSICAL AND CHEMICAL PR	9. PHYSICAL AND CHEMICAL PROPERTIES				
Appearance	:	powder			
Colour	:	white			
Odour	:	odourless			
Odour Threshold	:	No data available			
рН	:	6.0 - 7.5 (aqueous suspension)			
Melting point/freezing point	:	No data available			
Initial boiling point and boiling range	:	No data available			
Flash point	:	No data available			
Evaporation rate	:	Not applicable			
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.			
Flammability (liquids)	:	Not applicable			
Upper explosion limit / Upper flammability limit	:	No data available			
Lower explosion limit / Lower flammability limit	:	No data available			
Vapour pressure	:	Not applicable			
Relative vapour density	:	Not applicable			
Relative density	:	No data available			
Density	:	> 0.3 g/cm <sup>3</sup>			
Solubility(ies) Water solubility	:	slightly soluble			
Partition coefficient: n- octanol/water	:	Not applicable			
Auto-ignition temperature	:	No data available			
Decomposition temperature	:	No data available			

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Viscos Vis	sity scosity, kinematic	:	Not applicable			
Explo	sive properties	:	Not explosive			
Oxidiz	ring properties	:	The substance of	or mixture is not classified as oxidizing.		
Molec	ular weight	:	No data availabl	e		
Partic	le size	:	No data availabl	e		
0. STABI		Y				
	ivity ical stability pility of hazardous reac-		Stable under no May form explose dling or other me	ive dust-air mixture during processing, han		
Incom	tions to avoid patible materials dous decomposition cts	<ul> <li>Heat, flames a</li> <li>Avoid dust for</li> <li>Oxidizing age</li> <li>No hazardous</li> </ul>		ormation.		
1. TOXIC	OLOGICAL INFORMA	TIO	N			
Inform expos	nation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact			
	<b>toxicity</b> ful if swallowed.					
<u>Produ</u>	<u>ict:</u>					
Acute	oral toxicity	:	Acute toxicity est Method: Calculat	imate: 1,030 mg/kg ion method		
<u>Comp</u>	oonents:					
-	/Ipenicillin:					
ACUIE	oral toxicity	:	LD50 (Rat): 8,00			
			LD50 (Mouse): >	5,000 mg/kg		
			LD50 (Mouse): 3	<b>500</b>		



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admi	nistration)		Application Route	e: Intraperitoneal
			LD50 (Mouse): 32 Application Route	
	otomycin sulphate:			
Acute	e oral toxicity	:	LD50 (Hamster):	400 mg/kg
			LD50 (Rat): 430 r	mg/kg
			LD50 (Mouse): 25	5,000 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Mouse): 88 Application Route	
			LD50 (Mouse): 57 Application Route	
			LD50 (Mouse): 50 Application Route	
			TDLo (Dog): 220 Application Route Symptoms: Lowe	
			LDLo (Monkey): 7	
			TDLo (Monkey): 3 Application Route Symptoms: respir	e: Subcutaneous
	corrosion/irritation			
	lassified based on availa			
	ous eye damage/eye irr	itati	on	

Causes eye irritation.

#### **Components:**

#### Streptomycin sulphate:

Result : Mild eye irritation

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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•				
Comp	onents:			
Benzy	Ipenicillin:			
Test T Expos Specie Result	ure routes es	: :	Local lymph node Dermal Mouse Weak sensitizer	e assay (LLNA)
Test T Expos	ype ure routes	:	Maximisation Tes Dermal	t

Exposure routes:DermalSpecies:Guinea pigResult:positiveRemarks:Based on data from similar materialsResult:Strong sensitizerRemarks:Based on human experience.

#### Streptomycin sulphate:

IPT)

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### Benzylpenicillin:

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

#### Streptomycin sulphate:

Genotoxicity in vitro	:	Test Type: Chromosomal aberration Result: equivocal
Genotoxicity in vivo	:	Test Type: Chromosomal aberration Cell type: Human lymphocytes Result: negative

#### Carcinogenicity

Not classified based on available information.

#### **Components:**

#### Streptomycin sulphate:

Species	:	Rat
Application Route	:	Oral
NOAEL	:	5 mg/kg body weight



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R	Result		:	negative	
	Carcino nent	genicity - Assess-	:	Weight of evidenc cinogen	e does not support classification as a car-
	-	luctive toxicity mage the unborn child			
<u>C</u>	compo	nents:			
В	Benzyl	penicillin:			
E	ffects	on fertility	:	Test Type: Fertility Species: Mouse Result: No effects	
				Test Type: Fertility Species: Rat Result: No effects	
				Test Type: Fertility Species: Rabbit Result: No effects	
	Effects nent	on foetal develop-	:	Test Type: Develo Species: Mouse Result: No effects	pment on foetal development
				Test Type: Develo Species: Rat Result: No effects	pment on foetal development
				Test Type: Develo Species: Rabbit Result: No effects	opment on foetal development
s	Strento	mycin sulphate:			
	-	on fertility	:		
	Effects nent	on foetal develop-	:		
				Test Type: Develo Species: Rabbit	pment

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		Application Rou Developmental Result: No terat	Toxicity: NOAEL: 10 mg/kg body weight
	eproductive toxicity - As- essment	: May damage th	e unborn child.
	TOT - single exposure ot classified based on ava	ilable information.	
	TOT - repeated exposure auses damage to organs (		ugh prolonged or repeated exposure.
<u>C</u>	omponents:		
Та	<b>treptomycin sulphate:</b> arget Organs ssessment	: Kidney, inner ea : Causes damage exposure.	er to organs through prolonged or repeated
R	epeated dose toxicity		
<u>C</u>	omponents:		
	treptomycin sulphate:		
N A E	pecies OAEL pplication Route xposure time emarks	: Rat : 100 mg/kg : Subcutaneous : 72 Days : No significant a	dverse effects were reported
L A E	pecies OAEL pplication Route xposure time arget Organs	: Cat : 200 mg/kg : Oral : 90 Days : inner ear	
L A E	pecies OAEL pplication Route xposure time arget Organs	: Dog : 44 mg/kg : Intramuscular : 14 Days : inner ear	
L( A E: Ti	pecies OAEL pplication Route xposure time arget Organs ymptoms	: Dog : 50 - 100 mg/kg : Intramuscular : 20 Days : inner ear, Kidne : ataxia	у
	pecies OAEL	: Monkey : 50 mg/kg	



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LOAE		: 100 mg/kg					
	cation Route sure time	: Intramuscular : 5 Days					
	et Organs	: Liver, Kidney					
Speci		: Rat					
NOAE		: 5 mg/kg					
	cation Route sure time	: Oral : 2 yr					
Rema			adverse effects were reported				
Speci		: Monkey					
LOAE		: 25 mg/kg : Subcutaneous					
Application Route Exposure time		: 66 Days					
Target Organs			Blood, Liver, Kidney				
Symptoms		: anemia					
Aspir	ation toxicity						
Not c	lassified based on ava	ailable information.					
Expe	rience with human e	exposure					
<u>Com</u>	oonents:						
Benz	ylpenicillin:						
Inhala	ation	: Symptoms: All chospasm, ski	ergic reactions, Abdominal pain, bron- n rash				
Strep	tomycin sulphate:						
Inhala	ation	: Target Organs					
		Symptoms: he					
		Target Organs					
Skin	contact	Symptoms: he : Symptoms: sk					
, , , , , , , , , , , , , , , , , , , ,		. Oymptomo. ok					

,		
Components:		
Benzylpenicillin:		
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



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Tox plar	icity to algae/aquatic hts	:	EC50 (Raphidoce 100 mg/l Exposure time: 72 Method: OECD T	elis subcapitata (freshwater green alga)): > 2 hrs est Guideline 201
			NOEC (Raphidoc mg/l Exposure time: 72 Method: OECD T	
			EC50 (blue-green Exposure time: 72 Method: OECD T	
			NOEC (blue-gree Exposure time: 72 Method: OECD T	
M-F icity		:	1	
	icity to microorganisms	:	EC50: > 500 mg/l Exposure time: 3 Test Type: Respin Method: OECD T	h ration inhibition
			NOEC: 5 mg/l Exposure time: 3 Test Type: Respir Method: OECD T	ation inhibition
Str	eptomycin sulphate:			
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Tox plar	icity to algae/aquatic nts	:	EC50 (Microcystis Exposure time: 72 Method: ISO 8692	
			EC50 (Selenastru Exposure time: 72 Method: OECD T	
M-F icity	Factor (Acute aquatic tox-	:	100	
Tox aqu	icity to daphnia and other atic invertebrates (Chron- pxicity)	:	NOEC (Daphnia r Exposure time: 2 <sup>2</sup> Method: OECD T	
M-F	actor (Chronic aquatic	:	100	

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Packing group

Environmentally hazardous : yes

Labels

IATA-DGR UN/ID No.



## Benzylpenicillin / Streptomycin Sulphate Solid Formulation

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toxici	• ·				
Persi	istence and degradab	oility			
Com	ponents:				
	<b>Benzylpenicillin:</b> Biodegradability :		Result: Readily biodegradable. Biodegradation: 70.10 % Exposure time: 28 d Method: OECD Test Guideline 301B		
Bioa	ccumulative potential	I			
Com	ponents:				
Partit	otomycin sulphate: ion coefficient: n- iol/water	:	log Pow: -3.2		
	<b>lity in soil</b> ata available				
	r adverse effects ata available				
13. DISPC	SAL CONSIDERATIO	ONS			
Disp	osal methods				
-	e from residues	:	Do not dispose o	of waste into sewer.	
Conta	aminated packaging	:	<ul> <li>Dispose of in accordance with local regulations.</li> <li>Empty containers should be taken to an approved wasted dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused production of the statement of the statemen</li></ul>		
14. TRAN	SPORT INFORMATIO	N			
Inter	national Regulations				
Prope	umber er shipping name	:	N.O.S. (Streptomycin s	ALLY HAZARDOUS SUBSTANCE, SOLID,	
Class	Class		9		

: 111

: 9

: UN 3077



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Pi	roper	shipping name	:	-	nazardous substance, solid, n.o.s. Iphate, Benzylpenicillin)
-	lass		:	9	
	-	g group	:		
	abels		:	Miscellaneous	
	Packing instruction (cargo aircraft)		:	956	
	Packing instruction (passen- ger aircraft)		:	956	
Ē	nviron	mentally hazardous	:	yes	
IN	MDG-0	Code			
	IN nun		:	UN 3077	
Pi	Proper shipping name		:	ENVIRONMENTA	ALLY HAZARDOUS SUBSTANCE, SOLID,
				N.O.S.	
					phate, Benzylpenicillin)
	lass		:	9	
	-	g group	:	III	
	abels		:	9	
	mS Co		:	F-A, S-F	
М	larine	pollutant	:	yes	

#### Transport in bulk according to Annex II of MARPOL 73/78 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.

#### 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered

: Not applicable

#### Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable



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### Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

#### The components of this product are reported in the following inventories:

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

#### **16. OTHER INFORMATION**

Revision Date	:	2023/09/30
Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
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



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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 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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