

M-M-R Formulation

Version 3.1	Revision Date: 2023/09/30		S Number: 076-00024	Date of last issue: 2023/04/04 Date of first issue: 2015/03/26
1. PROD	UCT AND COMPANY IDE	ENT	IFICATION	
Prod	luct name	:	M-M-R Formulati	on
Man	ufacturer or supplier's d	etai	ls	
Com	pany	:	MSD	
Addr	Address		126 E. Lincoln Av Rahway, New Je	venue ersey U.S.A. 07065
Tele	Telephone		908-740-4000	
Eme	Emergency telephone number		1-908-423-6000	
E-ma	E-mail address		EHSDATASTEW	/ARD@msd.com
Reco	ommended use of the ch	nem	ical and restriction	ons on use
Reco	ommended use	:	Pharmaceutical	
Rest	rictions on use	:	Not applicable	

2. HAZARDS IDENTIFICATION

GHS Classification Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	¥
Signal word	:	Warning
Hazard statements	:	H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P273 Avoid release to the environment. Response: P391 Collect spillage.



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Disposal:

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

Other hazards which do not result in classification

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

Mixture

:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance /	Mixture
-------------	---------

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sucrose	57-50-1	< 10
Neomycin, sulfate (salt)	1405-10-3	>= 0.025 -< 0.25

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. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.
Protection of first-aiders Notes to physician	:	No special precautions are necessary for first aid responders. Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a



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			potential dust exp Exposure to comb	losion hazard. Dustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Metal oxides Chlorine compour Oxides of phosph Phosphorus comp Nitrogen oxides (I	orus pounds
ods	Specific extinguishing meth- ods		cumstances and t Use water spray t Remove undama so. Evacuate area.	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 protective equipment for firefighters		essary.	ed breathing apparatus for firefighting if nec-
. ACCIDI	ENTAL RELEASE MEAS	SUF	RES	
tive e	onal precautions, protec- quipment and emer- y procedures	:		ing advice (see section 7) and personal pro- recommendations (see section 8).
Envir	onmental 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 spillage cannot be contained.	
	ods and materials for inment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the of mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.



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	/Total ventilation e on safe handling	: Do not breath Handle in acc practice, base sessment Minimize dust Keep containe Keep away fro Take precaution	adequate ventilation. e dust. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- generation and accumulation. er closed when not in use. om heat and sources of ignition. onary measures against static discharges. orevent spills, waste and minimize release to the
Cond	itions for safe storage		rly labelled containers. dance with the particular national regulations.
Mate	rials to avoid		vith the following product types:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Sucrose	57-50-1	NAB	10 mg/m3	ID OEL
	Further information: Not classified as carcinogenic to humans. Not enough data to classify these materials as carcinogenic to hu- mans or animals			
		TWA	10 mg/m3	ACGIH
Neomycin, sulfate (salt)	1405-10-3	TWA	1 mg/m3 (OEB 1)	Internal
	Further information: DSEN, OTO			
		Wipe limit	0.1 mg/100 cm ²	Internal

Engineering measures :	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Personal protective equipment	t
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 : Hand protection	Particulates type
Material :	Chemical-resistant gloves
Remarks :	For prolonged or repeated contact use protective gloves. Wash hands before breaks and at the end of workday.



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ç		otection d body protection e measures	:	Safety goggles Skin should be w If exposure to che eye flushing syste ing place. When using do no	g personal protective equipment: ashed after contact. emical is likely during typical use, provide ems and safety showers close to the work- ot eat, drink or smoke. red clothing before re-use.
9. PH	IYSICA	L AND CHEMICAL PI	ROP	ERTIES	
/	Appear	ance	:	lyophilised cake	
(Colour		:	light yellow	
(Odour		:	No data available	e
(Odour ⁻	Threshold	:	No data available	e
F	pН		:	No data available	e
ſ	Melting point/freezing point		:	Not applicable	
	Initial bo range	oiling point and boiling	:	Not applicable	
F	Flash p	oint	:	Not applicable	
E	Evapora	ation rate	:	No data available	e
F	Flamma	ability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- eans.
F	Flamma	ability (liquids)	:	No data available	e
		explosion limit / Upper bility limit	:	No data available	e
		explosion limit / Lower bility limit	:	No data availabl	e
١	Vapour	pressure	:	No data available	e
F	Relative	e vapour density	:	No data available	e
I	Density	,	:	No data available	e
ç	Solubili Wate	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n-	:	No data available	e
		nition temperature	:	No data available	e



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[Decomposition temperature	:	No data availa	ble			
١	Viscosity Viscosity, kinematic		No data availa	ble			
E	Explosive properties	:	Not explosive				
(Dxidizing properties	:	The substance	e or mixture is not classified as oxidizing.			
ſ	Molecular weight	:	Not applicable				
F	Particle size	:	No data available				
10. S	TABILITY AND REACTIVIT	Y					
(F	Reactivity Chemical stability Possibility of hazardous reac ions	. :	Stable under n May form exp dling or other	as a reactivity hazard. normal conditions. losive dust-air mixture during processing, har means. n strong oxidizing agents.			
(Conditions to avoid	:	Heat, flames a				
ŀ	Incompatible materials Hazardous decomposition products		Avoid dust formation.Oxidizing agentsNo hazardous decomposition products are known.				
11. T	OXICOLOGICAL INFORMA	τιοι	1				
	nformation on likely routes o exposure	f :	Inhalation Skin contact Ingestion Eye contact				
	Acute toxicity Not classified based on avail	able	information.				
<u>(</u>	Components:						
5	Sucrose:						
ŀ	Acute oral toxicity	:	LD50 (Rat): 29	,700 mg/kg			
r	Neomycin, sulfate (salt):						
ŀ	Acute oral toxicity	:	LD50 (Mouse):	2,880 mg/kg			
			LD50 (Rat): 2,7	750 mg/kg			
	Acute toxicity (other routes of administration)	:	LD50 (Rat): 63	3 mg/kg ute: Subcutaneous			



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LD50 (Mouse): 116 mg/kg Application Route: Intraperitoneal

LD50 (Mouse): 27.6 mg/kg Application Route: Intravenous

LD50 (Mouse): 275 mg/kg Application Route: Subcutaneous

Skin corrosion/irritation

Not classified based on available information.

Components:

Neomycin, sulfate (salt):

Species	:	Rabbit
Result	:	Mild skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Neomycin, sulfate (salt):

Species	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Neomycin, sulfate (salt):

Exposure routes	:	Dermal
Species	:	Humans
Result	:	positive

Germ cell mutagenicity

Not classified based on available information.

:

Components:

Sucrose:

Genotoxicity in vitro

Test Type: In vitro mammalian cell gene mutation test Result: negative



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Neon	nycin, sulfate (salt):			
Geno	otoxicity in vitro		est Type: Bao Result: negativ	cterial reverse mutation assay (AMES) e
		Т		itro mammalian cell gene mutation test hinese hamster ovary cells e
		Т		omosomal aberration luman lymphocytes
			est Type: in v esult: negativ	itro micronucleus test e
Genc	toxicity in vivo	S	est Type: Cyt pecies: Mous Cell type: Bond	
		A		ute: Intravenous injection
	inogenicity			
	lassified based on avai ponents:	lable in	formation.	
	nycin, sulfate (salt):			
Spec			lat	
Expo Resu	sure time It		Years egative	
-	oductive toxicity			
	lassified based on avai ponents:	lable in	formation.	
	nycin, sulfate (salt):			
	ts on fertility	S	est Type: Thr pecies: Rat pplication Ro	ee-generation reproduction toxicity study
		C F	Seneral Toxici	ty - Parent: NOAEL: 25 mg/kg body weight cts on fertility and early embryonic develop-
Effec ment	ts on foetal develop-	S A E	pecies: Rat pplication Ro mbryo-foetal	bryo-foetal development ute: Oral toxicity: NOAEL: 275 mg/kg body weight erse effects, No teratogenic effects
		Т	est Type: De pecies: Rat	-



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				ute: Subcutaneous I Toxicity: LOAEL: 6 mg/kg body weight e
Repro sessn	oductive toxicity - As- nent	:	Some evidence animal experim	e of adverse effects on development, based on the section of the s
	- single exposure lassified based on avai	lable	information	
	- repeated exposure			
	assified based on avai		information.	
	oonents:			
	nycin, sulfate (salt):			
	et Organs	:	Kidney, inner e	ar
-	ssment	:	May cause dar	nage to organs through prolonged or repeate
Rema	arks	:	exposure. Based on hum	an experience.
Repe	ated dose toxicity			
Com	oonents:			
Neon	nycin, sulfate (salt):			
Speci		:	Mouse	
LÒAE	EL	:	30 mg/kg	
LÒAE Applic	EL cation Route	:		
LÖAE Applic Expos	EL	:	30 mg/kg Subcutaneous	
LÖAE Applic Expos	EL cation Route sure time et Organs	:	30 mg/kg Subcutaneous 14 d	
LÕAE Applic Expos Targe Speci NOAE	EL cation Route sure time et Organs es EL		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg	
LOAE Applic Expose Targe Speci NOAE LOAE	EL cation Route sure time et Organs EL EL		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg	
LÓAE Applic Expos Targe Speci NOAE LOAE Applic	EL cation Route sure time et Organs EL EL cation Route		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular	
LÓAE Applic Expos Targe Speci NOAE LOAE Applic Expos	EL cation Route sure time et Organs EL EL		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg	
LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci	EL cation Route sure time et Organs es EL EL cation Route sure time et Organs es		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular 30 - 60 Weeks	
LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE	EL cation Route sure time et Organs EL EL cation Route sure time et Organs EL		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular 30 - 60 Weeks ear Guinea pig 10 mg/kg	
LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic	EL cation Route sure time et Organs es EL cation Route sure time et Organs es EL cation Route		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular 30 - 60 Weeks ear Guinea pig 10 mg/kg Oral	
LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic	EL cation Route sure time et Organs EL EL cation Route sure time et Organs EL cation Route sure time		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular 30 - 60 Weeks ear Guinea pig 10 mg/kg Oral 90 d	adverse effects were reported
LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic Expos	EL cation Route sure time et Organs es EL cation Route sure time et Organs es EL cation Route sure time arks		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular 30 - 60 Weeks ear Guinea pig 10 mg/kg Oral 90 d	
LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Rema Speci LOAE	EL cation Route sure time et Organs es EL cation Route sure time et Organs es EL cation Route sure time arks es cation Route		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular 30 - 60 Weeks ear Guinea pig 10 mg/kg Oral 90 d No significant a Guinea pig 100 mg/kg	
LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic Expos Rema Speci LOAE	EL cation Route sure time et Organs es EL cation Route sure time et Organs es EL cation Route sure time arks es		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular 30 - 60 Weeks ear Guinea pig 10 mg/kg Oral 90 d No significant a Guinea pig	
LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic Expos Rema Speci LOAE Applic Expos	EL cation Route sure time et Organs es EL cation Route sure time et Organs es EL cation Route sure time arks es EL cation Route sure time arks		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular 30 - 60 Weeks ear Guinea pig 10 mg/kg Oral 90 d No significant a Guinea pig 100 mg/kg Subcutaneous 34 d	
LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic Expos Rema Speci LOAE	EL cation Route sure time et Organs es EL cation Route sure time et Organs es EL cation Route sure time arks es EL cation Route sure time arks es EL cation Route sure time es		30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg Intramuscular 30 - 60 Weeks ear Guinea pig 10 mg/kg Oral 90 d No significant a Guinea pig 100 mg/kg Subcutaneous	

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Exposure time	:	Intramuscular 30 d Kidney
Species LOAEL Application Route Exposure time Target Organs Symptoms Remarks		Rat 25 mg/kg oral (feed) 84 Weeks ear hearing loss mortality observed
Species LOAEL Application Route Exposure time Target Organs	:	Dog 20 mg/kg Subcutaneous 90 d Kidney
Aspiration toxicity Not classified based on availab Experience with human expo		
Components:		
Neomycin, sulfate (salt): Skin contact Eye contact Ingestion	:	Symptoms: Sensitisation Remarks: May irritate skin. Remarks: May cause eye irritation. Symptoms: Nausea, Vomiting, Diarrhoea, tinnitus, hearing loss, Loss of balance
12. ECOLOGICAL INFORMATION		
Ecotoxicity		
<u>Components:</u>		
Neomycin, sulfate (salt): Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 72 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		LC50 (Americamysis): 39 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035
Toxicity to algae/aquatic plants	:	EC50 (Anabaena flos-aquae (cyanobacterium)): 0.00075 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Anabaena flos-aquae (cyanobacterium)): 0.0003 mg/l
		10/15



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icity) M-Fac toxicity	tor (Acute aquatic tox- tor (Chronic aquatic /) y to microorganisms	EC50 (Pseude mg/l Exposure time Method: OEC NOEC (Pseud 0.0022 mg/l Exposure time Method: OEC : 1,000 : 10 : EC50 (Natura Exposure time Test Type: Re	D Test Guideline 201 okirchneriella subcapitata (green algae)): 0.009 e: 72 h D Test Guideline 201 dokirchneriella subcapitata (green algae)): e: 72 h D Test Guideline 201 I microorganism): 107.6 mg/l
		Exposure time Test Type: Re	l microorganism): 2.8 mg/l e: 3 h espiration inhibition D Test Guideline 209
Persis	tence and degradabil	ity	
Neom	<u>onents:</u> ycin, sulfate (salt): gradability	: Result: rapidly Biodegradatio Exposure time Method: OEC	n: 50 %
Bioace	cumulative potential		
<u>Comp</u>	onents:		
	se: on coefficient: n- I/water	: Pow: < 1	
Partitic	ycin, sulfate (salt): on coefficient: n- l/water	: log Pow: < -2	
	ty in soil a available		



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Othe	r adverse effects		
No da	ata available		
3. DISPO	OSAL CONSIDERATIO	NS	
-	osal methods		
Wast	e from residues		se of waste into sewer. a accordance with local regulations.
Conta	aminated packaging	: Empty conta dling site for	iners should be taken to an approved waste har recycling or disposal. ise specified: Dispose of as unused product.
4. TRAN	SPORT INFORMATION	١	
Inter	national Regulations		
UNR [.]	TDG		
	umber	: UN 3077	
Prope	er shipping name	N.O.S.	ENTALLY HAZARDOUS SUBSTANCE, SOLID sulfate (salt))
Class		: 9	
	ing group	: 111	
Labe		: 9	
Envir	onmentally hazardous	: yes	
	-DGR		
UN/IE		: UN 3077	
Prope	er shipping name		ally hazardous substance, solid, n.o.s. sulfate (salt))
Class		: 9	
	ing group	:	
Labe		: Miscellaneou	JS
aircra	ing instruction (cargo	: 956	
Packi	ing instruction (passen-	: 956	
	ircraft) onmentally hazardous	: yes	
IMDO	G-Code		
	umber er shipping name	: UN 3077 : ENVIRONM	ENTALLY HAZARDOUS SUBSTANCE, SOLID
-		N.O.S.	
		(Neomycin, s	sulfate (salt))
Class		: 9	
Label	ing group	: III : 9	
	Code	: 9 : F-A, S-F	
	ne pollutant	: r-A, S-r : yes	
		-	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.



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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
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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

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	:	Internal technical data, data from raw material SDSs, OECD



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	compi Sheet	le the Safety Data		eChem Portal cy, http://echa	search results and European Chemicals Agen- europa.eu/	
	Date format		:	yyyy/mm/dd		
Full text of other abbreviati						
ACGIH ID OEL			:	USA. ACGIH Threshold Limit Values (TLV) Indonesia. Occupational Exposure Limits		
ACGIH / TWA ID OEL / NAB			:	8-hour, time-w Long term exp	eighted average osure limit	

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

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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