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Palonosetron Formulation

Vers 2.2		Revision Date: 2024/09/28		S Number: 20322-00011	Date of last issue: 2023/09/30 Date of first issue: 2019/08/02		
1. PI	1. PRODUCT AND COMPANY IDENTIFICATION						
	Produc	t name	:	Palonosetron For	rmulation		
	Manufa	acturer or supplier's c	letai	ls			
	Compa	ny	:	MSD			
	Addres	S	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065		
	Teleph	one	:	908-740-4000			
	Emerge	ency telephone number	r:	1-908-423-6000			
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com		
	Recom	mended use of the cl	nem	ical and restriction	ons on use		
		mended use tions on use	:	Pharmaceutical Not applicable			

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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)
Palonosetron Hydrochloride	135729-62-3	< 10

4. FIRST AID MEASURES

If inhaled	:	If inhaled, remove to fresh air.
		Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution.

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gency procedures



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lf M ar de P	case of eye contact swallowed lost important symptoms nd effects, both acute and elayed rotection of first-aiders otes to physician	: :	Flush eyes with w Get medical atten If swallowed, DO Get medical atten Rinse mouth thore None known.	tion if symptoms occur. vater as a precaution. tion if irritation develops and persists. NOT induce vomiting. tion if symptoms occur. oughly with water.
5. FIR	EFIGHTING MEASURES			
S	uitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	nsuitable extinguishing edia	:	None known.	
	pecific hazards during fire- ghting	:	Exposure to comb	pustion products may be a hazard to health.
	azardous combustion prod- cts	:	Carbon oxides	
	pecific extinguishing meth- ds	:	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
	pecial protective equipment r firefighters	:	essary.	ed breathing apparatus for firefighting if nec- tective equipment.
6. ACC	CIDENTAL RELEASE MEAS	SUF	RES	
tiv	ersonal precautions, protec- /e equipment and emer-	:		ing advice (see section 7) and personal pro- 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.



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	ods and materials for inment and cleaning up	For large spi ment to keep be pumped, Clean up ren bent. Local or nation posal of this employed in mine which r Sections 13 a	inert absorbent material. Ils, provide dyking or other appropriate contain- omaterial from spreading. If dyked material can store recovered material in appropriate container. naining materials from spill with suitable absor- onal regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.
7. HANDL	ING AND STORAGE		
Tech	nical measures	: See Enginee	ring measures under EXPOSURE /PERSONAL PROTECTION section.
	/Total ventilation e on safe handling	: Use only with : Handle in ac practice, bas sessment	n adequate ventilation. cordance with good industrial hygiene and safety ed on the results of the workplace exposure as- prevent spills, waste and minimize release to the
	litions for safe storage rials to avoid	Store in acco	erly labelled containers. ordance with the particular national regulations. with the following product types: ring agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis			
Palonosetron Hydrochloride	135729-62-3	TWA	0.4 µg/m3 (OEB 5)	Internal			
		Wipe limit	4 µg/100 cm ²	Internal			

Components with workplace control parameters

Engineering measures :	Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to pre- vent leakage of compounds into the workplace. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. No open handling permitted. Totally enclosed processes and materials transport systems are required.
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				e the use of appropriate containment tech-
			ology designed t orkplace.	o prevent leakage of compounds into the
Perso	onal protective equip	ment		
	Respiratory protection		ire assessment nmended guidel	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection.
	lter type protection	: Pa	articulates type	
Ma	aterial	: CI	nemical-resistan	t gloves
Re	emarks	: Co	onsider double g	gloving.
	protection	lf m W pc ae	the work enviror ists or aerosols, ear a faceshield otential for direct erosols.	tes with side shields or goggles. Inment or activity involves dusty conditions, wear the appropriate goggles. If or other full face protection if there is a a contact to the face with dusts, mists, or
Skin a	and body protection	Ad ta po Us	sk being perforn sable suits) to a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. legowning techniques to remove potentially
Hygie	ene measures	: If ey in W W Th er ap	exposure to che ve flushing syste g place. hen using do no ash contaminate ne effective oper ngineering contro opropriate degov	emical is likely during typical use, provide ems and safety showers close to the work- ot eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the
9. PHYSIC	CAL AND CHEMICAL	PROPE	RTIES	
Appe	arance	: A	queous solution)
Colou	ır	: c	lear	

Odour Threshold	:	No data available

рН : 4.5 - 5.5

Odour

- Melting point/freezing point : No data available
- Initial boiling point and boiling : No data available

: No data available

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range	е			
Flash	n point	:	No data available	9
Evap	poration rate	:	No data available	9
Flam	nmability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	No data available	9
	er explosion limit / Upper mability limit	:	No data available	9
	er explosion limit / Lower mability limit	:	No data available	9
Vapo	our pressure	:	No data available	9
Rela	tive vapour density	:	No data available	9
Rela	tive density	:	No data available	9
Dens	sity	:	1.015 g/cm ³	
	bility(ies) /ater solubility	:	No data available	9
	tion coefficient: n- nol/water	:	Not applicable	
	-ignition temperature	:	No data available	9
Deco	omposition temperature	:	No data available	9
Visco V	osity iscosity, kinematic	:	No data available	9
Explo	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	cular weight	:	No data available	9
	cle characteristics cle size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
	:	Can react with strong oxidizing agents.
tions		





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Incon	itions to avoid npatible materials rdous decomposition icts	: None known. : Oxidizing agen : No hazardous o	ts decomposition products are known.
		TION	
Inforr expos	nation on likely routes sure	of : Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on avai	lable information.	
	ponents:		
Palor	nosetron Hydrochlori	de:	
Acute	e oral toxicity	: LDLo (Rat): 250	mg/kg
		LDLo (Mouse):	100 mg/kg
		LDLo (Dog): 50	mg/kg
Not c	corrosion/irritation lassified based on ava ponents:	lable information.	
Palor Rema	n osetron Hydrochlori arks	le: : No skin irritation	I
	us eye damage/eye i lassified based on ava		
Resp	iratory or skin sensit	sation	
	sensitisation lassified based on ava	lable information.	
Resp	iratory sensitisation	lable information.	
Not c	lassified based on avai		
Germ	lassified based on avai n cell mutagenicity lassified based on avai		
Germ Not c	cell mutagenicity		
Germ Not c <u>Com</u> Palor	cell mutagenicity lassified based on avai	lable information.	



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		thesis in mamm Result: negative	alian cells (in vitro)
			ro mammalian cell gene mutation test ninese hamster ovary cells
			omosome aberration test in vitro ninese hamster cells
Geno	toxicity in vivo	: Test Type: In vir Species: Mouse Result: negative	
Carci	nogenicity		
Not cl	assified based on ava	ailable information.	
Repro	oductive toxicity		
-	-		
Not cl	assified based on ava	ailable information.	
Not cl	-	ailable information.	
Not cl <u>Comp</u> Palon	assified based on ava ponents: posetron Hydrochlor	ide:	
Not cl <u>Comp</u> Palon	assified based on ava	ide: : Test Type: Ferti	
Not cl <u>Comp</u> Palon	assified based on ava ponents: posetron Hydrochlor	r ide: : Test Type: Ferti Species: Rat, m Application Rou	ale te: Intravenous
Not cl <u>Comp</u> Palon	assified based on ava ponents: posetron Hydrochlor	r ide: : Test Type: Ferti Species: Rat, m Application Rou	ale te: Intravenous .: 10 mg/kg body weight
Not cl <u>Comp</u> Palon	assified based on ava ponents: posetron Hydrochlor	r ide: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL	ale te: Intravenous .: 10 mg/kg body weight adverse effects
Not cl <u>Comp</u> Palon	assified based on ava ponents: posetron Hydrochlor	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity
Not cl <u>Comp</u> Palon	assified based on ava ponents: posetron Hydrochlor	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat Application Rou	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity
Not cl <u>Comp</u> Palon	assified based on ava ponents: posetron Hydrochlor	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity te: Oral
Not cl Comp Palon Effect	assified based on ava ponents: posetron Hydrochlor	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL Symptoms: No a : Test Type: Deve	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity te: Oral .: > 30 mg/kg body weight effects on fertility
Not cl Comp Palon Effect	assified based on ava ponents: hosetron Hydrochlor s on fertility	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL Symptoms: No a : Test Type: Deve Species: Rat	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity te: Oral .: > 30 mg/kg body weight effects on fertility
Not cl Comp Palon Effect	assified based on ava ponents: hosetron Hydrochlor s on fertility	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL Symptoms: No a : Test Type: Deva Species: Rat Application Rou Developmental	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity te: Oral .: > 30 mg/kg body weight effects on fertility elopment te: Oral Toxicity: NOAEL: 18 mg/kg body weight
Not cl Comp Palon Effect	assified based on ava ponents: hosetron Hydrochlor s on fertility	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL Symptoms: No a : Test Type: Deve Species: Rat Application Rou Developmental Embryo-foetal to	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity te: Oral .: > 30 mg/kg body weight effects on fertility elopment te: Oral Toxicity: NOAEL: 18 mg/kg body weight pxicity: LOAEL: > 60 mg/kg body weight luced body weight, No effects on foetal dev
Not cl Comp Palon Effect	assified based on ava ponents: hosetron Hydrochlor s on fertility	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL Symptoms: No a : Test Type: Deve Species: Rat Application Rou Developmental Embryo-foetal to Symptoms: Rec opment, Reduce	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity te: Oral .: > 30 mg/kg body weight effects on fertility elopment te: Oral Toxicity: NOAEL: 18 mg/kg body weight pxicity: LOAEL: > 60 mg/kg body weight luced body weight, No effects on foetal dev ed foetal weight elopment
Not cl Comp Palon Effect	assified based on ava ponents: hosetron Hydrochlor s on fertility	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL Symptoms: No a : Test Type: Deve Species: Rat Application Rou Developmental Embryo-foetal to Symptoms: Reco opment, Reduce Test Type: Deve Species: Rabbit	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity te: Oral .: > 30 mg/kg body weight effects on fertility elopment te: Oral Toxicity: NOAEL: 18 mg/kg body weight by: by: body weight, No effects on foetal dev ed foetal weight elopment
Not cl Comp Palon Effect	assified based on ava ponents: hosetron Hydrochlor s on fertility	ride: : Test Type: Ferti Species: Rat, m Application Rou Fertility: NOAEL Symptoms: No a Test Type: Ferti Species: Rat Application Rou Fertility: NOAEL Symptoms: No a : Test Type: Deve Species: Rat Application Rou Developmental Embryo-foetal to Symptoms: Rec opment, Reduce Test Type: Deve Species: Rabbit Application Rou General Toxicity	ale te: Intravenous .: 10 mg/kg body weight adverse effects lity te: Oral .: > 30 mg/kg body weight effects on fertility elopment te: Oral Toxicity: NOAEL: 18 mg/kg body weight by: by: body weight, No effects on foetal dev ed foetal weight elopment



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STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Palonosetron Hydrochloride:

Exposure routes	:	Ingestion
Target Organs	:	Gastrointestinal tract, Kidney, Central nervous system, Testis
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Palonosetron Hydrochloride:

Species NOAEL LOAEL Application Route Exposure time Target Organs Remarks		Mouse 60 mg/kg 150 mg/kg Oral 3 Months Kidney, male reproductive organs May cause damage to organs.
Species NOAEL LOAEL Application Route Exposure time Target Organs Remarks		Rat 18 mg/kg > 60 mg/kg Oral 3 Months male reproductive organs, Liver Significant toxicity observed in testing
Species LOAEL Application Route Exposure time Target Organs Remarks		Dog 20 mg/kg Oral 3 Months Central nervous system, Testis Significant toxicity observed in testing
Species NOAEL Application Route Exposure time Target Organs Remarks		Rat 7 mg/kg Intravenous 6 Months Central nervous system, Gastrointestinal tract Significant toxicity observed in testing
Species NOAEL Application Route Exposure time	::	Dog 6 mg/kg Intravenous 9 Months





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Target Org		:		system, Gastrointestinal tract
Symptoms Remarks		:	Vomiting Significant toxicity	v observed in testing
A a wine (i a w	4			
Aspiration Not classifi	ed based on availa	ble	information.	
Componer	<u>nts:</u>			
Palonoset	ron Hydrochloride	e:		
Not applica	ible			
Experience	e with human exp	osu	ıre	
Componer				
	ron Hydrochloride	e:		
Palonoset				
Ingestion		:		
Ingestion		:		nost common side effects are:, Headache, ess, Weakness, anxiety
Ingestion	AL INFORMATION	: N		
Ingestion		: N		
Ingestion	у	: N		
Ingestion ECOLOGIC Ecotoxicity <u>Componer</u>	у			
Ingestion . ECOLOGIC Ecotoxicity <u>Componer</u> Palonoseti Ecotoxicol	y <u>nts:</u> ron Hydrochloride logy Assessment	ə:	Diarrhoea, Dizzin	ess, Weakness, anxiety
Ingestion . ECOLOGIC Ecotoxicity <u>Componer</u> Palonoseti Ecotoxicol	y <u>nts:</u> ron Hydrochloride	ə:	Diarrhoea, Dizzin	
Ingestion ECOLOGIC Ecotoxicity Componer Palonosetr Ecotoxicol Acute aqua	y <u>nts:</u> ron Hydrochloride logy Assessment	9:	Diarrhoea, Dizzin	
Ingestion ECOLOGIC Ecotoxicity Componer Palonosetr Ecotoxicol Acute aqua Chronic aq	y nts: ron Hydrochloride logy Assessment atic toxicity	e: :	Diarrhoea, Dizzin	ess, Weakness, anxiety not be excluded, No data available
Ingestion ECOLOGIC Ecotoxicity Componer Palonosetr Ecotoxicol Acute aqua Chronic aq	y nts: ron Hydrochloride logy Assessment atic toxicity uatic toxicity ce and degradabili	e: :	Diarrhoea, Dizzin	ess, Weakness, anxiety not be excluded, No data available
Ingestion ECOLOGIC Ecotoxicity Componer Palonosetr Ecotoxicol Acute aqua Chronic aq Persistenc No data ava	y nts: ron Hydrochloride logy Assessment atic toxicity uatic toxicity ce and degradabili ailable ulative potential	e: :	Diarrhoea, Dizzin	ess, Weakness, anxiety not be excluded, No data available
Ingestion ECOLOGIC Ecotoxicity Componer Palonosetr Ecotoxicol Acute aqua Chronic aq Persistenc No data ava Bioaccum	y nts: ron Hydrochloride logy Assessment atic toxicity uatic toxicity ce and degradabili ailable ulative potential ailable	e: :	Diarrhoea, Dizzin	ess, Weakness, anxiety not be excluded, No data available
Ingestion ECOLOGIC Ecotoxicity Componer Palonosett Ecotoxicol Acute aqua Chronic aq Persistenc No data ava Bioaccume No data ava	y nts: ron Hydrochloride logy Assessment atic toxicity uatic toxicity ce and degradabili ailable ulative potential ailable soil	e: :	Diarrhoea, Dizzin	ess, Weakness, anxiety not be excluded, No data available
Ingestion ECOLOGIC Ecotoxicity Componer Palonosett Ecotoxicol Acute aqua Chronic aq Persistenc No data ava Bioaccuma No data ava Mobility in No data ava	y nts: ron Hydrochloride logy Assessment atic toxicity uatic toxicity ailable ulative potential ailable soil ailable erse effects	e: :	Diarrhoea, Dizzin	ess, Weakness, anxiety not be excluded, No data available

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-



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dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

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 Not applicable

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

Not applicable



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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	:	2024/09/28
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



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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.

ID / EN