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1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Palonosetron Formulation
Supplier's company name, ad	ddr	ess and phone number
Company name of supplier	:	MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

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)	ENCS No.
Ethylenediaminetetraacetic acid	139-33-3	< 0.1	2-1265
disodium salt Palonosetron Hydrochloride	135729-62-3	< 0.1	-
,			

4. FIRST AID MEASURES



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lf inha	lled	:	If inhaled, remov		
In cas	e of skin contact	:	Wash with water	ntion if symptoms occur. and soap as a precaution. ntion if symptoms occur.	
In cas	e of eye contact	:	Flush eyes with v	vater as a precaution. ntion if irritation develops and persists.	
lf swa	llowed	:	If swallowed, DO Get medical atter	NOT induce vomiting. ntion if symptoms occur. roughly with water.	
	important symptoms ffects, both acute and	:	None known.		
Protec	ction of first-aiders to physician	:		utions are necessary for first aid responders. ically and supportively.	
5. FIREFIG	BHTING MEASURES				
Suitat	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical		
Unsui media	table extinguishing	:	None known.		
Speci fightin	fic hazards during fire- g	:	Exposure to com	bustion products may be a hazard to health.	
Hazar ucts	dous combustion prod-	:	Carbon oxides		
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	
	al protective equipment efighters	:	Wear self-contair essary. Use personal pro	ned breathing apparatus for firefighting if nec-	

Personal precautions, protec- tive equipment and emer- gency procedures	:	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).



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			ese of contaminated wash water. should be advised if significant spillages ned.
	lethods and materials for ontainment and cleaning up	For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HA	NDLING AND STORAGE		
ŀ	landling		
Т	echnical measures		measures under EXPOSURE RSONAL PROTECTION section.
	ocal/Total ventilation dvice on safe handling	 Use only with ad Handle in accord practice, based of sessment 	equate ventilation. lance with good industrial hygiene and safety on the results of the workplace exposure as- vent spills, waste and minimize release to the
	voidance of contact lygiene measures	 Oxidizing agents If exposure to ch flushing systems place. When using do n Wash contamina The effective ope engineering cont appropriate dego 	emical is likely during typical use, provide eye and safety showers close to the working not eat, drink or smoke. ted clothing before re-use. eration of a facility should include review of rols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the
S	torage		
C	conditions for safe storage		labelled containers. nce with the particular national regulations.
Ν	laterials to avoid		the following product types:



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

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

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. Operations require the use of appropriate containment tech- nology designed to prevent leakage of compounds into the workplace.
Personal protective equipmen	t
Respiratory protection:Filter type:Hand protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type
Material :	Chemical-resistant gloves
Remarks : Eye protection :	Consider double gloving. 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 :	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES



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I	Physical	state	:	Aqueous solution	
(Colour		:	clear	
(Odour		:	No data available	
(Odour Tł	nreshold	:	No data available	
I	Melting p	ooint/freezing point	:	No data available	
		oint, initial boiling boiling range	:	No data available	
I	Flammat	pility (solid, gas)	:	Not applicable	
I	Flammat	pility (liquids)	:	No data available	
I	Uppe	xplosion limit and uppe r explosion limit / Up- ammability limit			
		r explosion limit / r flammability limit	:	No data available	
I	Flash po	int	:	No data available	
I	Decompo	osition temperature	:	No data available	
I	pН		:	4.5 - 5.5	
I	Evaporat	tion rate	:	No data available	
,	Auto-igni	tion temperature	:	No data available	
,	Viscosity Visco	sity, kinematic	:	No data available	
;	Solubility Wate	r(ies) r solubility	:	No data available	
	Partition octanol/v	coefficient: n- vater	:	Not applicable	
v	Vapour p	pressure	:	No data available	
		and / or relative densit ive density	у :	No data available	
	Densi	ity	:	1.015 g/cm ³	
I	Relative	vapour density	:	No data available	



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	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
		characteristics icle size	:	Not applicable	
10.	STABIL	ITY AND REACTIVITY	,		
	Possibi tions Conditio Incomp	al stability lity of hazardous reac- ons to avoid atible materials ous decomposition		Stable under nor Can react with st None known. Oxidizing agents	a reactivity hazard. mal conditions. rong oxidizing agents. ecomposition products are known.
11.	тохісо	LOGICAL INFORMAT	101	l	
	Informa exposu	ation on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact	
		t oxicity ssified based on availa	ble	nformation.	
		onents:			
	Ethyle	nediaminetetraacetic	acio	I disodium salt:	
	Acute c	oral toxicity	:	LD50 (Rat): 2,800	mg/kg
	Acute in	nhalation toxicity	:	LC50 (Rat, male): Exposure time: 6 Test atmosphere: Method: OECD Te	h dust/mist
	-	setron Hydrochloride			
	Acute c	oral toxicity	:	LDLo (Rat): 250 n	
				LDLo (Mouse): 10)0 mg/kg
				LDLo (Dog): 50 m	ıg/kg



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Skin corrosion/irritation

Not classified based on available information.

Components:

Palonosetron Hydrochloride:

Remarks

: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Ethylenediaminetetraacetic acid disodium salt:

Species Result	:	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:

Ethylenediaminetetraacetic acid disodium salt:

Test Type Exposure routes Species Method Result Remarks	::	Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative Based on data from similar materials
Remarks	:	Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

Ethylenediaminetetraacetic acid disodium salt:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
	Test Type: In vitro mammalian cell gene mutation test Result: negative
	Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on data from similar materials



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ersion D	Revision Date: 2024/09/28	SDS Num 4720324-		Date of last issue: 2024/04/06 Date of first issue: 2019/08/02	
Geno	toxicity in vivo	cytoge Speci Applic Metho	enetic assa es: Mouse ation Route	nalian erythrocyte micronucleus test (in vivo y) e: Ingestion ⁻ est Guideline 474	
Palor	nosetron Hydrochlo	ride:			
Genotoxicity in vitro			Test Type: Ames test Result: negative		
		thesis		damage and repair, unscheduled DNA syn- lian cells (in vitro)	
		Test s		o mammalian cell gene mutation test nese hamster ovary cells	
		Test s		nosome aberration test in vitro nese hamster cells	
Geno	toxicity in vivo	Speci	ype: In vive es: Mouse t: negative	o micronucleus test	

Carcinogenicity

Not classified based on available information.

Components:

Ethylenediaminetetraacetic acid disodium salt:

Species Application Route	: Rat
Application Route	: Ingestion
Exposure time Result Remarks	: 103 weeks
Result	: negative
Remarks	: Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

Ethylenediaminetetraacetic acid disodium salt:

Effects on fertility	: Test Type: Four-generation reproduction toxicity study Species: Rat
	Application Route: Ingestion
	Result: negative
	Remarks: Based on data from similar materials



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Effec ment	ts on foetal develop-	S A	Fest Type: Embry Species: Rat Application Route Result: negative	ro-foetal development : Ingestion
Palor	nosetron Hydrochlorid	de:		
	ts on fertility	: T S <i>A</i> F	Fest Type: Fertilit Species: Rat, mai Application Route Fertility: NOAEL: Symptoms: No ad	e : Intravenous 10 mg/kg body weight
		S A F	Test Type: Fertility Species: Rat Application Route Fertility: NOAEL: Symptoms: No eff	: Oral > 30 mg/kg body weight
Effec ment	ts on foetal develop-	S A E S	Embryo-foetal tox	: Oral oxicity: NOAEL: 18 mg/kg body weight icity: LOAEL: > 60 mg/kg body weight ced body weight, No effects on foetal devel-
		S 4 0 1	Developmental To	

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Ethylenediaminetetraacetic acid disodium salt:

Exposure routes Target Organs Assessment	:	inhalation (dust/mist/fume)
Target Organs	:	Respiratory Tract
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

Palonosetron Hydrochloride:

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



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II		exposure.	
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
		tic acid disodium salt	:
Speci NOAI		: Rat : 500 mg/kg	
	⊆∟ cation Route	: Ingestion	
	sure time	: 13 Weeks	
Speci		: Rat	
LOAE		: 0.03 mg/l	
	cation Route sure time	: inhalation (dust : 4 Weeks	t/mist/fume)
Metho		: OECD Test Gu	ideline 412
Palor	nosetron Hydrochlo	ide:	
Speci	•	: Mouse	
NOA	EL	: 60 mg/kg	
LOAE		: 150 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 3 Months	eproductive organs
Rema			nage to organs.
Speci	ies	: Rat	
NOA		: 18 mg/kg	
LOAE		: > 60 mg/kg	
	cation Route sure time	: Oral : 3 Months	
	et Organs		ive organs, Liver
Rema	arks		city observed in testing
Spec		: Dog	
LOAE		: 20 mg/kg	
Applic	cation Route sure time	: Oral : 3 Months	
Targe	et Organs		s system, Testis
Rema			city observed in testing
Speci	ies	: Rat	
		: 7 mg/kg : Intravenous	
	cation Route sure time	: 6 Months	
Targe	et Organs		s system, Gastrointestinal tract
Rema			city observed in testing
Speci		: Dog	
NOA	E L	: 6 mg/kg	
		10 / 16	ò



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Application Route	:	Intravenous
Exposure time	:	9 Months
Target Organs	:	Central nervous system, Gastrointestinal tract
Symptoms	:	Vomiting
Exposure time Target Organs Symptoms Remarks	:	Significant toxicity observed in testing

Aspiration toxicity

Not classified based on available information.

Components:

Palonosetron Hydrochloride:

Not applicable

Experience with human exposure

Components:

Palonosetron Hydrochloride:

Ingestion

: Symptoms: The most common side effects are:, Headache, Diarrhoea, Dizziness, Weakness, anxiety

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethylenediaminetetraacetic acid disodium salt:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 140 mg/l Exposure time: 48 h Method: DIN 38412
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		EC10 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 25 mg/l Exposure time: 21 d



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ic toxi Toxic	icity) ity to microorganisms	Exposure tim	ted sludge): > 500 mg/l le: 30 min CD Test Guideline 209
Palor	nosetron Hydrochlorid	le:	
Ecoto	oxicology Assessmen	t	
Acute	aquatic toxicity	: Toxic effects	cannot be excluded, No data available
Chror	nic aquatic toxicity	: Toxic effects	cannot be excluded, No data available
Persi	stence and degradab	lity	
Com	oonents:		
Ethyl	enediaminetetraaceti	c acid disodium s	alt:
Biode	Biodegradability : Result: Not readily biodegradable. Biodegradation: 2 % Exposure time: 28 d Method: OECD Test Guideline 301D		on: 2 % ie: 28 d
Bioad	ccumulative potential		
Comp	oonents:		
Ethyl	enediaminetetraaceti	c acid disodium s	alt:
	cumulation	: Species: Lep Bioconcentra	omis macrochirus (Bluegill sunfish) ition factor (BCF): < 500 sed on data from similar materials
	ion coefficient: n- ol/water	: log Pow: -4.3	3
	lity in soil ata available		
	rdous to the ozone lag	ver	
	r adverse effects		
No da	ata available		
3. DISPO	SAL CONSIDERATIO	NS	
Dispo	osal methods		
-	e from residues		accordance with local regulations.
Conta	aminated packaging	: Empty contai dling site for	se of waste into sewer. ners should be taken to an approved waste han- recycling or disposal. se 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	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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

Not applicable

Marine pollutant

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Priority Assessment Chemical Substance



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Chemical name Number						
Sodium salt of 2,2',2'',2'''-(ethane-1,2-diyldinitrilo)tetraacetic acid 26				268		
Industrial Safety and Health Law						
Harm	ful Substances Prol	nibited from Manufact	ure			

Not applicable

Harmful Substances Required Permission for Manufacture Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Not applicable

Substances Subject to be Indicated Names

Not applicable

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2)

Not applicable

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

Poisonous and Deleterious Substances Control Law Not applicable



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vironi			of Specific Chemical Substances in the I the Management Thereof
-	Pressure Gas Safet	y Act	
-	sive Control Law		
	el Safety Law gulated as a danger	ous good	
	on Law gulated as a danger	ous good	
Marin	e Pollution and Sea	a Disaster Prevention	etc Law
Bulk t	ransportation	: Not classified a	s noxious liquid substance
Pack	ransportation	: Not classified a	s marine pollutant
Narco Not ap Specit	plicable	aw Material (Export / In	nport Permission) xport / Import permission)
	e Disposal and Pub rial waste	lic Cleansing Law	
The c	omponents of this	product are reported i	n the following inventories:
AICS		: not determined	
DSL		: not determined	
IECS	2	: not determined	

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Further information

5	ta, data from raw material SDSs, OECD h results and European Chemicals Agen- ba.eu/
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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



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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.

JP / EN