



Version	Revision Date: 2023/12/08	SDS Number:	Date of last issue: 2023/09/30
7.0		3928973-00019	Date of first issue: 2019/01/02

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Benzylpenicillin Formulation
Other means of identification	:	Duplocillin LA (A004183) Depocillin (A004256)
Supplier's company name, a	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	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

Skin sensitisation : Category 1
<u> </u>
Short-term (acute) aquatic : Category 1 hazard
Long-term (chronic) aquatic : Category 3 hazard
GHS label elements
Hazard pictograms :
Signal word : Danger
Hazard statements : H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



	H400 Very toxic H412 Harmful to	c to aquatic life. o aquatic life with long lasting effects.
ry statements	P272 Contamin the workplace. P273 Avoid rele P280 Wear prot	athing mist or vapours. ated work clothing should not be allowed out of ease to the environment. tective gloves. piratory protection.
	P304 + P340 IF keep comfortab P333 + P313 If vice/ attention. P342 + P311 If POISON CENT	skin irritation or rash occurs: Get medical ad- experiencing respiratory symptoms: Call a ER/ doctor. ake off contaminated clothing and wash it before
	Disposal: P501 Dispose c disposal plant.	of contents/ container to an approved waste
	ry statements	H412 Harmful to ry statements Prevention: P261 Avoid bre P272 Contamin the workplace. P273 Avoid rele P280 Wear prof P284 Wear resp Response: P302 + P352 IF P304 + P340 IF keep comfortab P333 + P313 If vice/ attention. P342 + P311 If POISON CENT P362 + P364 Ta reuse. P391 Collect sp Disposal: P501 Dispose c

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
Benzylpenicillin	61-33-6	>= 30 - < 40	
Ethylenediaminetetraacetic acid disodium salt	139-33-3	< 0.1	2-1265

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.



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In ca	se 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 ca	se of eye contact	:	Flush eyes with w	ater as a precaution.			
lf sw	allowed	:	If swallowed, DO Get medical atten	Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
and e	Most important symptoms and effects, both acute and delayed		May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac				
	Protection of first-aiders		tive airways dysfunction syndrome). First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).				
	s to physician	:	Treat symptomati	cally and supportively.			
5. FIREFI	GHTING MEASURES						
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
Unsu medi	iitable extinguishing	:	None known.				
Spec fighti	ific hazards during fire- ng	:	Exposure to com	pustion products may be a hazard to health.			
Haza ucts	ardous combustion prod-	:	Carbon oxides Metal oxides				
Spec ods	ific extinguishing meth-	:	cumstances and t Use water spray t Remove undama so.	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			
	cial protective equipment	:		e, wear self-contained breathing apparatus. tective equipment.			
6. ACCID	ENTAL RELEASE MEA	SUF	RES				

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil



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				se of contaminated wash water. should be advised if significant spillages ned.
Methods and materials for containment and cleaning up		:	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material cate be pumped, store recovered material in appropriate contain Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and diposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regard certain local or national requirements. 	
	ING AND STORAGE			
Hand	lling			
Tech	nical measures	:		measures under EXPOSURE
Local	/Total ventilation			SONAL PROTECTION section.
	e on safe handling	:	Do not get on ski	
			Avoid breathing n	nist or vapours.
			Do not swallow. Avoid contact with	h eves
				ance with good industrial hygiene and safety
			•	n the results of the workplace exposure as-
			sessment Keep container tig	abtly closed
				d individuals, and those susceptible
				es, chronic or recurrent respiratory disease,
			tory irritants or se	eir physician regarding working with respira-
			Take care to prev	vent spills, waste and minimize release to the
Avoid	lance of contact		environment. Oxidizing agents	
	ene measures	:		emical is likely during typical use, provide eye
			• •	and safety showers close to the working
			place. When using do ne	ot eat, drink or smoke.
			Contaminated wo	ork clothing should not be allowed out of the
			workplace. Wash contaminat	ed clothing before re-use.
				ration of a facility should include review of
			engineering contr appropriate dego	ols, proper personal protective equipment, wning and decontamination procedures,
			industrial hygiene	e monitoring, medical surveillance and the

use of administrative controls.



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Stora	age		
Conc	ditions for safe storage	Keep tightly clo	y labelled containers. sed. ance with the particular national regulations.
Mate	rials to avoid		th the following product types:
Pack	aging material	: Unsuitable mat	erial: None known.

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 / Reference concentration / Permissible con- centration	Basis
Benzylpenicillin	61-33-6	TWA	600 μg/m3 (OEB 2)	Internal
	Further information: RSEN, DSEN			
		Wipe limit	100 µg/100 cm2	Internal

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo-

Filter type	:	sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. 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	:	Work uniform or laboratory coat.
	•	

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state
- : suspension



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	Colour		:	white	
	Odour			No data available	1
		hreshold		No data available	
		point/freezing point	:	No data available	
	Boiling p	point, initial boiling d boiling range	:	No data available	
	Flamma	bility (solid, gas)	:	Not applicable	
	Flamma	bility (liquids)	:	No data available	
	Uppe	xplosion limit and uppe er explosion limit / Up- ammability limit			
		er explosion limit / er flammability limit	:	No data available	
	Flash po	pint	:	No data available	•
	Decomp	osition temperature	:	No data available	
	рН		:	No data available	
	Evapora	tion rate	:	No data available	
	Auto-ign	ition temperature	:	No data available	,
	Viscosity Visco	/ osity, kinematic	:	No data available	
	Solubility Wate	y(ies) er solubility	:	soluble	
	Partition octanol/	coefficient: n- water	:	Not applicable	
	Vapour	pressure	:	No data available	
		and / or relative densit tive density	у :	No data available	
	Dens	sity	:	No data available	
	Relative	vapour density	:	No data available	
	Explosiv	re properties	:	Not explosive	





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Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.	
Мо	lecular weight	:	No data available		
	rticle characteristics Particle size	:	Not applicable		
10. STA	BILITY AND REACTIVITY	,			
Cho Pos tior Co Inc Ha:	activity emical stability ssibility of hazardous reac- ns nditions to avoid ompatible materials zardous decomposition ducts		Stable under nor Can react with st None known. Oxidizing agents	a reactivity hazard. mal conditions. rong oxidizing agents. ecomposition products are known.	
11. TOX	ICOLOGICAL INFORMAT	ION	l		
	ormation on likely routes of bosure	:	Inhalation Skin contact Ingestion Eye contact		
Not	ute toxicity t classified based on availa mponents:	ble i	information.		
	nzylpenicillin:				
Acı	ute oral toxicity	:	LD50 (Rat): 8,000) mg/kg	
			LD50 (Mouse): >	5,000 mg/kg	
	ute toxicity (other routes of ninistration)	:	LD50 (Mouse): 3, Application Route		
			LD50 (Mouse): 32 Application Route		
Eth	ylenediaminetetraacetic	acio	l disodium salt:		
Ас	ute oral toxicity	:	LD50 (Rat): 2,800	mg/kg	
Acu	ute inhalation toxicity	:	LC50 (Rat, male): Exposure time: 6 Test atmosphere: Method: OECD Te	h dust/mist	



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Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Ethylenediaminetetraacetic acid disodium salt:

Species	:	Rabbit
Result	:	No 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.

Components:

Benzylpenicillin:

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Dermal
Species	: Mouse
Test Type Exposure routes Species Result	: Weak sensitizer
Test Type Exposure routes	: Maximisation Test
Exposure routes	: Dermal
Species	: Guinea pig
Result	: positive
Species Result Remarks	: Based on data from similar materials

Result	:	Strong sensitizer
Remarks	:	Based on human experience.

Ethylenediaminetetraacetic acid disodium salt:

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

Germ cell mutagenicity

Not classified based on available information.

Components:

Benzylpenicillin:

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



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Asses	ssment	cell mutagen.	
Ethyl	enediaminetetraace	tic acid disodium salt	:
	toxicity in vitro	: Test Type: Bac Result: negativ Remarks: Base	terial reverse mutation assay (AMES)
		Result: negativ Test Type: Chr Result: negativ	e omosome aberration test in vitro
Geno	toxicity in vivo	cytogenetic ass Species: Mous Application Roo	e ute: Ingestion 9 Test Guideline 474

Carcinogenicity

Not classified based on available information.

Components:

Ethylenediaminetetraacetic acid disodium salt:

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

Reproductive toxicity

Not classified based on available information.

Components:

Benzylpenicillin:

Effects on fertility	: Test Type: Fertility Species: Mouse Result: No effects on fertility
	Test Type: Fertility Species: Rat Result: No effects on fertility
	Test Type: Fertility Species: Rabbit Result: No effects on fertility



ersion)	Revision Date: 2023/12/08		Number: 3973-00019	Date of last issue: 2023/09/30 Date of first issue: 2019/01/02	
Effect ment	s on foetal develop-	:	Fest Type: Dev Species: Mous Result: No effe		
		:	Fest Type: Dev Species: Rat Result: No effe	velopment ects on foetal development	
		9	Fest Type: Dev Species: Rabb Result: No effe		
Ethyl	enediaminetetraaceti	c acid	disodium sal	t:	
	s on fertility	: - :	Γest Type: Foι Species: Rat Application Ro Result: negativ	r-generation reproduction toxicity study ute: Ingestion	
Effect ment	s on foetal develop-	2	Fest Type: Em Species: Rat Application Ro Result: negativ		
	- single exposure lassified based on ava	ilable ir	formation		
	- repeated exposure				
Not c	assified based on ava	ilable ir	formation.		
<u>Com</u>	oonents:				
	enediaminetetraaceti sure routes		disodium sal t nhalation (dus		
Targe	et Organs ssment	: I : I	Respiratory Tra		
Repe	ated dose toxicity				
-	oonents:				
Ethyl	enediaminetetraaceti	c acid	disodium sal	t:	
Speci NOAE	es EL	: : {	: Rat : 500 mg/kg		
	cation Route	: Ingestion : 13 Weeks			

Exposure time	: 13 Weeks
Species	: Rat
LOAEL	: 0.03 mg/l
Application Route	: inhalation (dust/mist/fume)



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Expos Metho	sure time od	:	4 Weeks OECD Test Guide	eline 412
-	ation toxicity lassified based on availa	b .1.5	in farma ati an	
	rience with human exp			
-	oonents:			
Benz y Inhala	ylpenicillin: ation	:	Symptoms: Allerg chospasm, skin ra	ic reactions, Abdominal pain, bron- ash
2. ECOLO	OGICAL INFORMATION	N		
Ecoto	oxicity			
<u>Com</u>	oonents:			
Benz	ylpenicillin:			
Toxici	ity to fish	:	Exposure time: 96	:hus mykiss (rainbow trout)): > 100 mg/l 6 hrs est Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time: 48	nagna (Water flea)): 3.6 mg/l 3 hrs est Guideline 202
Toxici plants	ity to algae/aquatic	:	EC50 (Raphidoce 100 mg/l Exposure time: 72 Method: OECD T	
			NOEC (Raphidoc mg/l Exposure time: 72 Method: OECD T	
			EC50 (blue-greer Exposure time: 72 Method: OECD T	
			NOEC (blue-gree Exposure time: 72 Method: OECD T	
	ctor (Acute aquatic tox-	:	1	
icity) Toxici	ity to microorganisms	:	EC50: > 500 mg/l Exposure time: 3	



sion	Revision Date: 2023/12/08		S Number: 28973-00019	Date of last issue: 2023/09/30 Date of first issue: 2019/01/02
				biration inhibition Test Guideline 209
			NOEC: 5 mg/l Exposure time: Test Type: Res	
Ethvl	enediaminetetraacetic	acio	d disodium salt:	
	ty to fish		LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): > 100 mg/l
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time: Method: DIN 38	
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: Method: OECD	kirchneriella subcapitata (green algae)): > 10 72 h Test Guideline 201 d on data from similar materials
			mg/l Exposure time: Method: OECD	irchneriella subcapitata (green algae)): > 1 72 h Test Guideline 201 d on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia Exposure time:	a magna (Water flea)): 25 mg/l 21 d
	ity to microorganisms	:	Exposure time:	l sludge): > 500 mg/l 30 min Test Guideline 209
Persi	stence and degradabili	ity		
Comp	oonents:			
'	ylpenicillin: gradability	:	Result: Readily Biodegradation	70.10 %
			Exposure time: Method: OECD	28 d Test Guideline 301B
	enediaminetetraacetic	acio		
Biode	gradability	:	Biodegradation: Exposure time:	28 d
11			Method: OECD	Test Guideline 301D



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Bioaccumulative potential

Components:

Ethylenediaminetetraacetic acid disodium salt:

Bioaccumulation :	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): < 500 Remarks: Based on data from similar materials
Partition coefficient: n- : octanol/water	log Pow: -4.3
Mobility in soil No data available	
Hazardous to the ozone layer Not applicable	
Other adverse effects No data available	

13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG
UN number
Proper shipping name

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzylpenicillin)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Benzylpenicillin)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous



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Packing instruction (cargo aircraft)		:	964	
Packing instruction (passen-		:	964	
ger aircraft) Environmentally hazardous		:	yes	
	-Code			
UN number		:	UN 3082	
Proper shipping name		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
<u></u>			(Benzylpenicillin)	
Class		:	9	
Packi	ng group	:		
Label	S	:	9	
EmS	Code	:	F-A, S-F	
Marin	e pollutant	:	yes	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

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.

ERG Code

: 171

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Priority Assessment Chemical Substance

Chemical name	Number
Sodium salt of 2,2',2'',2'''-(ethane-1,2-diyldinitrilo)tetraacetic acid	268

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable





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on Ex	lar concerning Info cisting Chemicals ha		s having Mutagenicity - Annex 2: Informatio
on No Not a	ptified Substances h pplicable	naving Mutagenicity	having Mutagenicity - Annex 1: Information
	tances Subject to be pplicable	e Notified Names	
	tances Subject to be	e Indicated Names	
	tances Subject to be pplicable	e Indicated Names	
tions		s (Article 577-2 of the	Occupational Health and Safety Regula-
	nance on Prevention	of Hazards Due to Sp	pecified Chemical Substances
	nance on Prevention	of Lead Poisoning	
	nance on Prevention	of Tetraalkyl Lead Po	bisoning
	nance on Prevention	of Organic Solvent P	Poisoning
Subs	cement Order of the tances) pplicable	e Industrial Safety and	d Health Law - Attached table 1 (Dangerous
Poiso	onous and Deleterio	us Substances Contro	ol Law
	pplicable		
viron	ment and Promotion		of Specific Chemical Substances in the Er the Management Thereof
	pplicable	• .	
-	Pressure Gas Safet	y ACt	
-	psive Control Law		
	el Safety Law		
Misce	ellaneous dangerous :	substances and articles nd its Attached Table 1	s (Article 2 and 3 of rules on shipping and stor)



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Aviation Law

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation	:	Not classified as noxious liquid substance
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Pack transportation : Classified as marine pollutant

Narcotics and Psychotropics Control Act

Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable

Waste Disposal and Public Cleansing Law

Industrial waste

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

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

16. OTHER INFORMATION

Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format

: yyyy/mm/dd

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemi-



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cal 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