

Version 5.0	Revision Date: 2020/10/05		S Number: 37892-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12
1. PRODU	JCT AND COMPANY ID	ENT	IFICATION	
Chen	nical product name	:	Betamethasone	Injection Formulation
	<b>blier's company name, a</b> pany name of supplier		-	number
Addro	ess	:	30 Hudson Stre Jersey City, Nev	et, 33nd floor v Jersey, U.S.A 07302
Telep	phone	:	551-430-6000	
E-ma	ail address	:	EHSSTEWARD	@organon.com
Emei	rgency telephone number	r:	215-631-6999	
	ommended use of the cl ommended use	hem :	<b>ical and restrict</b> i Pharmaceutical	ions on use
2. HAZAR	RDS IDENTIFICATION			
	classification of chemi oductive toxicity	cal   :		
	ific target organ toxicity - ated exposure	:	Category 1 (Pitugland, Blood, Ad	uitary gland, Immune system, muscle, thymus drenal gland)
Long haza	-term (chronic) aquatic rd	:	Category 1	
GHS	label elements			
Haza	rd pictograms	:		¥_2
Signa	al word	:	Danger	•
Haza	ard statements	:	H372 Causes da tem, muscle, thy longed or repea	nage the unborn child. amage to organs (Pituitary gland, Immune sys- /mus gland, Blood, Adrenal gland) through pro ted exposure. to aquatic life with long lasting effects.
Preca	autionary statements	:	P202 Do not ha and understood P260 Do not bre P264 Wash skir	ecial instructions before use. ndle until all safety precautions have been read eathe mist or vapours. n thoroughly after handling. t, drink or smoke when using this product.



Version 5.0	Revision Date: 2020/10/05	SDS Number: 1267892-00010	Date of last issue: 2020/03/ Date of first issue: 2017/02/					
		P280 Wear pro	P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protec- tion/ face protection.					
		<b>Response:</b> P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage.						
		<b>Storage:</b> P405 Store loc	ked up.					
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an ap	proved waste				
None	e known.	not result in classifica						
	tance / Mixture	: Mixture						
Com	ponents							
Chen	nical name	CAS-No.	Concentration (% w/w)	ENCS No.				
betar	methasone	378-44-9	>= 0.3 - < 1					
4. FIRST	AID MEASURES							
Gene	eral advice	: In the case of a vice immediatel	ccident or if you feel unwell, se	ek medical ad-				

If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.
Protection of first-aiders	:	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).
Notes to physician	:	Treat symptomatically and supportively.

## SAFETY DATA SHEET



## **Betamethasone Injection Formulation**

Version 5.0	Revision Date: 2020/10/05		Number: 92-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12
5. FIREFI	GHTING MEASURES			
Suita	ble extinguishing media	Ale Ca	ater spray cohol-resistant arbon dioxide (C y chemical	
Unsu medi	itable extinguishing a		one known.	
Spec fighti	ific hazards during fire- ng	: Ex	posure to comb	pustion products may be a hazard to health.
	rdous combustion prod-	: Ca	arbon oxides	
Spec ods	ific extinguishing meth-	cu Us Re so	mstances and the water spray the move undamage	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
	ial protective equipment efighters	: In	the event of fire	e, wear self-contained breathing apparatus. tective equipment.
6. ACCID	ENTAL RELEASE MEAS	SURES	5	
tive e	onal precautions, protec- equipment and emer- y procedures	Fo	llow safe hand	tective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Envir	onmental precautions	Pr Pr ba Re Lo	event further le event spreading rriers). etain and dispos	he environment. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages ned.
	ods and materials for ainment and cleaning up	Fo me be Cli be Lo po en mi Se	or large spills, per ent to keep mat pumped, store ean up remainin nt. cal or national sal of this mate pployed in the o ne which regula ections 13 and 1	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- trial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. I5 of this SDS provide information regarding tional requirements.

## 7. HANDLING AND STORAGE

## Handling

Technical measures

: See Engineering measures under EXPOSURE

## SAFETY DATA SHEET



## **Betamethasone Injection Formulation**

Version 5.0	Revision Date: 2020/10/05		S Number: 57892-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12
Advice	Total ventilation e on safe handling ance of contact ne measures	:	If sufficient ventila ventilation. Do not get on skin Do not breathe m Do not swallow. Avoid contact with Wash skin thorou Handle in accorda practice, based o sessment Keep container tig Do not eat, drink Take care to prev environment. Oxidizing agents If exposure to che flushing systems place. When using do no Wash contaminat The effective ope engineering contr appropriate dego	ist or vapours. h eyes. ghly after handling. ance with good industrial hygiene and safety n the results of the workplace exposure as- ghtly closed. or smoke when using this product. rent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working ot eat, drink or smoke. red clothing before re-use. ration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the
Stora	ge			
Condi	Conditions for safe storage		Store locked up. Keep tightly close	labelled containers. ed. ice with the particular national regulations.
Materi	ials to avoid			the following product types:
Packa	iging material	:	Unsuitable mater	al: 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 / Permissible concentration	Basis
betamethasone	378-44-9	TWA	1 µg/m3 (OEB 4)	Internal
	Further information: Skin			
	Wipe limit		Wipe limit 10 µg/100 cm <sup>2</sup>	

Engineering measures	<ul> <li>All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.</li> <li>Essentially no open handling permitted.</li> <li>Use closed processing systems or containment technologies.</li> <li>If handled in a laboratory, use a property designed biosafety.</li> </ul>
	If handled in a laboratory, use a properly designed biosafety



Version 5.0	Revision Date: 2020/10/05	SDS Number: 1267892-0001	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12					
		tial exists fo	ne hood, or other containment device if the poten- or aerosolization. If this potential does not exist, r lined trays or benchtops.					
Perso	onal protective equipr	nent						
Respiratory protection		sure asses	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		s type					
Ма	Material		Chemical-resistant gloves					
	Remarks Eye protection		ouble gloving. y glasses with side shields or goggles. environment or activity involves dusty conditions, rosols, wear the appropriate goggles. eshield or other full face protection if there is a r direct contact to the face with dusts, mists, or					
Skin a	and body protection	Additional t task being posable su	m or laboratory coat. body garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, dis- its) to avoid exposed skin surfaces. briate degowning techniques to remove potentially ed clothing.					

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point, initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Lower explosion limit and uppe Upper explosion limit / Upper flammability limit		xplosion limit / flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available

## SAFETY DATA SHEET



## **Betamethasone Injection Formulation**

Vers 5.0	sion	Revision Date: 2020/10/05		S Number: 7892-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12
	Decom	position temperature	:	No data available	
	рН		:	No data available	•
	Evapora	ation rate	:	No data available	
	Auto-ig	nition temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	
		and / or relative densit e density	у :	No data available	
	Density	,	:	No data available	
	Relative	e vapour density	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Particle Particle	characteristics size	:	Not applicable	

## **10. STABILITY AND REACTIVITY**

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition	:	No hazardous decomposition products are known.
products		

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

### Acute toxicity

Not classified based on available information.



ersion D	Revision Date: 2020/10/05		OS Number: 67892-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12
<u>Produ</u> Acute	uct: inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	re: dust/mist
Com	oonents:			
betan	nethasone:			
Acute	oral toxicity	:	LD50 (Rat): > 5	5,000 mg/kg
			LD50 (Mouse):	> 4,500 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0.4 Exposure time:	
-	corrosion/irritation lassified based on ava	ailable	information.	
Com	oonents:			
betan	nethasone:			
Speci		:	Rabbit	
UL I	es	:	Rabbit Mild skin irritati	on
Speci Resul Serio Not cl	ies It J <b>us eye damage/eye</b> lassified based on ava <u>ponents:</u> nethasone: ies	: irritati	Mild skin irritati on	
Speci Resul Serio Not cl <u>Comp</u> betan Speci Resul	ies It J <b>us eye damage/eye</b> lassified based on ava <u>ponents:</u> nethasone: ies	: irritati ailable : :	Mild skin irritati on information. Rabbit No eye irritatior	
Speci Resul Serio Not cl Comp betan Speci Resul Resp Skin	ies It <b>us eye damage/eye</b> lassified based on ava <u>ponents:</u> nethasone: les It	irritati ailable : tisatic	Mild skin irritati on information. Rabbit No eye irritation	
Speci Resul Serio Not cl Comp betan Speci Resul Resul Skin s Not cl Resp	ies It us eye damage/eye lassified based on ava <u>ponents:</u> nethasone: ies It iratory or skin sensi sensitisation	: ailable : tisatic ailable	Mild skin irritati on information. Rabbit No eye irritation on information.	
Speci Resul Serio Not cl Comp betan Speci Resul Resul Skin Not cl Resp Not cl	ies It us eye damage/eye lassified based on ava <u>ponents:</u> nethasone: ies It iratory or skin sensi sensitisation lassified based on ava iratory sensitisation	: ailable : tisatic ailable	Mild skin irritati on information. Rabbit No eye irritation on information.	
Speci Resul Serio Not cl Com betan Speci Resul Resul Resp Skin Not cl Resp Not cl	ies It us eye damage/eye lassified based on ava <u>ponents:</u> nethasone: ies It <b>iratory or skin sensi</b> sensitisation lassified based on ava iratory sensitisation lassified based on ava	: ailable : tisatic ailable	Mild skin irritati on information. Rabbit No eye irritation on information.	
Speci Resul Serio Not cl Comp Detan Speci Resul Resul Resul Resp Not cl Comp Not cl Comp	ies It ius eye damage/eye lassified based on ava <u>ponents:</u> nethasone: les It iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava ponents: nethasone: sure routes	: ailable : tisatic ailable	Mild skin irritati on information. Rabbit No eye irritation on information. information.	
Speci Resul Serio Not cl Comp betan Speci Resul Resp Skin = Not cl Resp Not cl Comp	ies It ius eye damage/eye lassified based on ava <u>ponents:</u> nethasone: is iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava ponents: nethasone: sure routes les	: ailable : tisatic ailable	Mild skin irritati on information. Rabbit No eye irritation on information.	٦



Version 5.0	Revision Date: 2020/10/05	-	DS Number: 267892-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12		
Comp	onents:					
11	ethasone:					
	oxicity in vitro	:	Test Type: Bacte Result: negative	est Type: Bacterial reverse mutation assay (AMES)		
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test		
			Test Type: Chron Result: positive	nosome aberration test in vitro		
Genot	oxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: equivocal	, ,		
	cell mutagenicity - sment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ		
II Carcir	nogenicity					
Not cla	assified based on avail	able	information.			
-	ductive toxicity					
-	amage the unborn chil	d.				
Comp	onents:					
	ethasone: s on foetal develop-	:	Species: Rabbit			
ment				e: Intramuscular oxicity: LOAEL: 0.05 mg/kg body weight ty, Malformations were observed.		
				e: Subcutaneous oxicity: LOAEL: 0.42 mg/kg body weight tions were observed.		
				: Intramuscular oxicity: LOAEL: 1 mg/kg body weight ions were observed.		
Repro sessm	ductive toxicity - As- ent	:	Clear evidence of animal experimer	adverse effects on development, based on ts.		

## STOT - single exposure

Not classified based on available information.

## STOT - repeated exposure

Causes damage to organs (Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland) through prolonged or repeated exposure.



Version 5.0	Revision Date: 2020/10/05	SDS Number: 1267892-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12
<b>betan</b> Targe	oonents: nethasone: et Organs ssment	Adrenal gland	, Immune system, muscle, thymus gland, Blood, ge to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Speci LOAE Applic Expos		: Rabbit : 0.05 % : Skin contact : 10 - 30 d : Pituitary gland	, Immune system, muscle
Expos		: Rat : 0.05 % : Skin contact : 8 Weeks : thymus gland	
Expos		: Mouse : 0.1 % : Skin contact : 8 Weeks : thymus gland	
Speci LOAE Applic Expos Targe	es EL cation Route sure time et Organs	: Dog : 0.05 mg/kg : Oral : 28 d : Blood, thymus	gland, Adrenal gland
-	ation toxicity assified based on ava	ilable information.	
Expe	rience with human e	kposure	
Comp	oonents:		
<b>betan</b> Inhala	nethasone: ation	: Target Organs	: Adrenal gland
Skin o	contact	: Symptoms: Re	edness, pruritis, Irritation



Version 5.0	Revision Date: 2020/10/05	SDS Number: 1267892-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12
12. ECOLO	OGICAL INFORMATION	l	
Ecoto	oxicity		
Comp	oonents:		
betan	nethasone:		
	ty to daphnia and other ic invertebrates	: EC50 (Americar Exposure time: 9	
Toxici plants	ty to algae/aquatic	mg/l Exposure time: Method: OECD	rchneriella subcapitata (green algae)): > 34 72 h Test Guideline 201 kicity at the limit of solubility
		mg/l Exposure time: Method: OECD	kirchneriella subcapitata (green algae)): 34 72 h Test Guideline 201 kicity at the limit of solubility
Toxici icity)	ty to fish (Chronic tox-	Exposure time: 3	ales promelas (fathead minnow)): 0.052 mg/l 32 d Test Guideline 210
		Exposure time: 2	latipes (Japanese medaka)): 0.07 μg/l 219 d Test Guideline 229
	ty to daphnia and other ic invertebrates (Chron- city)	Exposure time: 2	magna (Water flea)): 8 mg/l 21 d Test Guideline 211
M-Fac toxicit	ctor (Chronic aquatic y)	: 1,000	
	<b>stence and degradabili</b> ta available	ty	
Bioac	cumulative potential		
Comp	oonents:		
Partiti	n <b>ethasone:</b> on coefficient: n- ol/water	: log Pow: 2.11	
	<b>ity in soil</b> ta available		
	rdous to the ozone laye	r	
	<b>adverse effects</b> Ita available		

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## **Betamethasone Injection Formulation**

Versi 5.0	on Revision Date: 2020/10/05		S Number: 67892-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12
13. D	ISPOSAL CONSIDERATIO	NS		
	Disposal methods			
,	Waste from residues Contaminated packaging		<ul> <li>Dispose of in accordance with local regulations.</li> <li>Empty containers should be taken to an approved wast dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused production</li> </ul>	
14. T	RANSPORT INFORMATION	1		
I	International Regulations			
	UNRTDG			
	UN number Proper shipping name	:	UN 3082 ENVIRONMENTA N.O.S. (betamethasone)	LLY HAZARDOUS SUBSTANCE, LIQUID,
I	Class Packing group Labels	:	9     9	
I	I <b>ATA-DGR</b> UN/ID No. Proper shipping name	:		azardous substance, liquid, n.o.s.
   	Class Packing group Labels Packing instruction (cargo	::	(betamethasone) 9 III Miscellaneous 964	
ļ	aircraft) Packing instruction (passen- ger aircraft)	:	964	
	Environmentally hazardous	:	yes	
I	I <b>MDG-Code</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTA N.O.S. (betamethasone)	LLY HAZARDOUS SUBSTANCE, LIQUID,
	Class Packing group Labels EmS Code Marine pollutant		9 III 9 F-A, S-F 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



Version	Revision Date:	SDS Number:	Date of last issue: 2020/03/23
5.0	2020/10/05	1267892-00010	Date of first issue: 2017/02/12

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 15. REGULATORY INFORMATION

#### **Related Regulations**

#### **Fire Service Law**

Not applicable to dangerous materials / designated flammables.

### **Chemical Substance Control Law**

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

#### 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

# 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

### 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



ersion 0	Revision Date: 2020/10/05	SDS Number: 1267892-00010	Date of last issue: 2020/03/23 Date of first issue: 2017/02/12
viron			of Specific Chemical Substances in the En- the Management Thereof
•	Pressure Gas Safet	y Act	
•	<b>sive Control Law</b>		
Misce		substances and articles nd its Attached Table 1)	(Article 2 and 3 of rules on shipping and stor-
Misce	i <b>on Law</b> Ilaneous dangerous s aw and its Attached T		(Article 194 of The Enforcement Rules of Avia
Marin	e Pollution and Sea	Disaster Prevention	etc Law
Bulk t	ransportation	: Noxious liquid	substance(Category Z)
Pack	transportation	: Classified as m	arine pollutant
Narco	otics and Psychotro tic or Psychotropic R oplicable	<b>pics Control Act</b> aw Material (Export / In	nport Permission)
	fic Narcotic or Psycho oplicable	otropic Raw Material (E	xport / Import permission)
	e Disposal and Publ trial waste	ic Cleansing Law	
The c	omponents of this p	product are reported i	n the following inventories:
AICS		: not determined	
DSL		: not determined	
IECS	2	: not determined	

## 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



Version	Revision Date:	SDS Number:	Date of last issue: 2020/03/23
5.0	2020/10/05	1267892-00010	Date of first issue: 2017/02/12

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; 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