

Versio 5.0	on	Revision Date: 28.09.2024		S Number: 30383-00016	Date of last issue: 14.12.2023 Date of first issue: 07.09.2017	
SECT	SECTION 1. IDENTIFICATION					
F	Product	t identifier	:	Estriol Formulation	on (Veterinary)	
C	Other means of identification		:	Incurin (A008094) INCURIN (57787)		
Ν	Manufacturer or supplier's d			ils		
C	Company		:	MSD		
Δ	Address			Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340		
Т	Telephone		:	908-740-4000		
E	Emergency telephone		:	1-908-423-6000		
E	E-mail address		:	EHSDATASTEW	/ARD@msd.com	
F	Recom	mended use of the c	hem	ical and restriction	ons on use	
-		mended use tions on use	:	Veterinary produ Not applicable	ct	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

Carcinogenicity	:	Category 1A
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (female reproductive organs, male reproductive organs, Blood, Kidney, Bladder)
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H350 May cause cancer. H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs (female reproductive or- gans, male reproductive organs, Blood, Kidney, Bladder)



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			ged or repeated exposure if swallowed. ic to aquatic life with long lasting effects.
Preca	utionary Statements	Prevention:	
		P260 Do not b P273 Avoid rel	lease to the environment. otective gloves/ protective clothing/ eye protec-
		Response:	
		P308 + P313 I attention. P391 Collect s	F exposed or concerned: Get medical advice/ pillage.
		Storage:	
		P405 Store loc	ked up.
Othe	r hazards which do n	ot result in classifica	tion

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Starch	9005-25-8		>= 10 -< 20
Oestriol	50-27-1	Carc., 1A Repr., 1A STOT RE, (Oral)(female repro- ductive organs, male reproductive organs, Blood, Kidney, Blad- der), 1 Aquatic Chronic, 1	>= 1 -< 2,5

SECTION 4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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.



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		Wash clothin	g before reuse.
			lean shoes before reuse.
In cas	se of eye contact		se well with water.
			attention if irritation develops and persists.
If swa	allowed		DO NOT induce vomiting.
		Get medical a	
Moot	important ourmatana		thoroughly with water.
	important symptoms ffects, both acute and	: May cause ca	fertility. May damage the unborn child.
delay	,	, ,	amage to organs through prolonged or repeated
		Contact with the skin.	dust can cause mechanical irritation or drying of
			with the eyes can lead to mechanical irritation.
Prote	ction of first-aiders	and use the r	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).
Notes	s to physician	•	matically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment.



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				Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages red.
Methods and materials for containment and cleaning up		:	container for disp Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the Local or national disposal of this m employed in the of determine which n Sections 13 and 1	f dust in the air (i.e., clearing dust surfaces	

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.



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Conditions for safe storage		: Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.				
Materials to avoid		 Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases 				

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Starch	9005-25-8	TWA	10 mg/m ³	ACGIH
Oestriol	50-27-1	TWA	0.5 µg/m3 (OEB 5)	Internal
	Further informa	ation: Skin		
		Wipe limit	5 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 prevent 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 technology designed to prevent leakage of compounds into the workplace.
Personal protective equipm	ent	
Respiratory protection Filter type Hand protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended 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. Work uniform or laboratory coat.
Skin and body protection	·	



Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gaunilets, disposable suits) to avoid exposed skin surfaces Use appropriate degowning techniques to remove potentially contaminated clothing. SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Physical state : Color : Odor : Initial point/freezing point : Plash point : Flash point : Planmability (solid, gas) : Flammability (iquids) : Vapor respondin limit / Upper : Vapor pressure : No data available Immability limit : Vapor pressure	Versio 5.0	n Revision Date: 28.09.2024		S Number: 30383-00016	Date of last issue: 14.12.2023 Date of first issue: 07.09.2017
Physical state:powder, tabletColor:whiteOdor:odorlessOdor Threshold:No data availablepH:6Metting point/freezing point:No data availableInitial boiling point and boiling range:No data availableFlash point:No data availableEvaporation rate:Not applicableFlammability (solid, gas):No data availableImmability (solid, gas):No data availableUpper explosion limit / Upper flammability limit:No data availableVapor pressure:No data availableRelative vapor density:No data availableRelative density:No data availableDensity:No data availablePorsity:No data availablePartition coefficient: n- Catanol/water:Not applicablePartition coef				task being perform disposable suits) Use appropriate c	ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. legowning techniques to remove potentially
Color:whiteColor:odorlessOdor Threshold:No data availablepH:6Metting point/freezing point:No data availableInitial boiling point and boiling:No data availableInitial boiling point and boiling:No data availableFlash point:Not data availableEvaporation rate:Not applicableEvaporation rate:No data availableIlammability (solid, gas):No data availableIlammability (liquids):No data availableUpper explosion limit / Upper:No data availableLower explosion limit / Lower:No data availableRelative vapor density:Not data availableRelative vapor density:Not data availableRelative density:Not data availableDensity:0.965 g/cm³Solubility(ies):partity solublePartition coefficient: n- cotano/water:Not applicableNot applicable:Not applicablePartition coefficient: n- cotano/water:Not applicablePartition coefficient: n- cotano/water:Not applicableNot applicable::Not applicable::Not applicable::Not applicable:Not applicable::Not applicable <td:< td="">:Not applicable<td:< td="">:No</td:<></td:<>	SECT	ON 9. PHYSICAL AND CHE	ΕΜΙΟ		S
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Initial boiling point and boiling:No data availablerange:Not applicableFlash point:Not applicableEvaporation rate:Not applicableFlammability (solid, gas):May form explosive dust-air mixture during processing, handling or other means.Flammability (liquids):No data availableUpper explosion limit / Upper:No data availableLower explosion limit / Lower:No data availableIdammability limit:No data availableVapor pressure:No data availableRelative density:No data availableDensity:No data availableDensity:No data availablePartition coefficient: n- octanol/water:Not applicablePartition coefficient: n- octanol/water:Not applicableNot applicable:::Not applicable::No data available:Itana coefficient: n- octanol/water::Not applicable::Not applicable:Not applicable <td:< td="">Not applicable<td>pl</td><td>н</td><td>:</td><td>6</td><td></td></td:<>	pl	н	:	6	
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flammability limit Lower explosion limit / Lower : No data available flammability limit Vapor pressure : No data available Relative vapor density : Not applicable Relative density : No data available Density : 0,965 g/cm ³ Solubility(ies) Water solubility : partly soluble Partition coefficient: n- octanol/water Autoignition temperature : Not applicable Not applicable	F	lammability (liquids)	:	No data available	9
flammability limitVapor pressure:No data availableRelative vapor density:Not applicableRelative density:No data availableDensity:0,965 g/cm³Solubility(ies) Water solubility:partly solublePartition coefficient: n- octanol/water Autoignition temperature:Not applicable			:	No data available	9
Relative vapor density:Not applicableRelative density:No data availableDensity:0,965 g/cm³Solubility(ies) Water solubility:partly solublePartition coefficient: n- octanol/water Autoignition temperature:Not applicableNo data available:Not applicable			:	No data available	9
Relative density:No data availableDensity:0,965 g/cm³Solubility(ies) Water solubility:partly solublePartition coefficient: n- octanol/water Autoignition temperature:Not applicableNo data available	V	apor pressure	:	No data available	9
Density:0,965 g/cm³Solubility(ies) Water solubility:partly solublePartition coefficient: n- octanol/water Autoignition temperature:Not applicableNo data available	R	elative vapor density	:	Not applicable	
Solubility(ies) : partly soluble Water solubility : partly soluble Partition coefficient: n- octanol/water : Not applicable Autoignition temperature : No data available	R	elative density	:	No data available	9
Water solubility:partly solublePartition coefficient: n- octanol/water:Not applicableAutoignition temperature:No data available	D	ensity	:	0,965 g/cm³	
octanol/water Autoignition temperature : No data available	S		:	partly soluble	
Autoignition temperature : No data available			:	Not applicable	
Decomposition temperature : No data available			:	No data available	9
	D	ecomposition temperature	:	No data available	9



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Visco: Vis	sity scosity, kinematic	: Not a	oplicable	
Explo	sive properties	: Not e	plosive	
Oxidiz	zing properties	: The s	ubstance o	r mixture is not classified as oxidizing.
	le characteristics le size	: No da	ta available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means.
Conditions to avoid		Can react with strong oxidizing agents. Heat, flames and sparks.
Conditions to avoid	·	Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.

Components:

Starch:

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg

Oestriol:

I

Acute oral toxicity	LD5	0 (Rat): >	2.000 mg/kg
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Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.



rsion)	Revision Date: 28.09.2024		S Number: 30383-00016	Date of last issue: 14.12.2023 Date of first issue: 07.09.2017
Com	oonents:			
Starc	h:			
Speci		:	Rabbit	
Resu	lt	:	No eye irritation	
Resp	iratory or skin sens	itizatio	n	
	sensitization lassified based on av	ailable	information.	
-	iratory sensitizatior assified based on av		information	
	oonents:	anabio		
Starc				
Test			Maximization Te	pet
	es of exposure	:	Skin contact	
Speci Resu		:	Guinea pig negative	
	<u>ponents:</u>			
Starc Geno	h: toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vitro	:		
Geno Oestr	toxicity in vitro	:	Result: negative	erial reverse mutation assay (AMES)
Geno Oestr Geno	toxicity in vitro	:	Result: negative Test Type: Bact Result: negative Test Type: Mam cytogenetic assa Species: Rat Application Rou	erial reverse mutation assay (AMES) malian erythrocyte micronucleus test (in vivo ay) te: Oral
Geno Oestr Geno Geno	toxicity in vitro r iol: toxicity in vitro	:	Result: negative Test Type: Bact Result: negative Test Type: Marr cytogenetic assa Species: Rat Application Rou Result: negative	erial reverse mutation assay (AMES) malian erythrocyte micronucleus test (in vivo ay) te: Oral
Geno Oestr Geno Geno Germ Asses	toxicity in vitro Fiol: toxicity in vitro toxicity in vivo cell mutagenicity - ssment nogenicity	:	Result: negative Test Type: Bact Result: negative Test Type: Marr cytogenetic assa Species: Rat Application Rou Result: negative Weight of evider	erial reverse mutation assay (AMES) malian erythrocyte micronucleus test (in vivo ay) te: Oral
Geno Oestr Geno Geno Germ Asses Carci May o	toxicity in vitro riol: toxicity in vitro toxicity in vivo cell mutagenicity - ssment nogenicity cause cancer.	:	Result: negative Test Type: Bact Result: negative Test Type: Marr cytogenetic assa Species: Rat Application Rou Result: negative Weight of evider	erial reverse mutation assay (AMES) malian erythrocyte micronucleus test (in vivo ay) te: Oral
Geno Oestr Geno Geno Germ Asses Carci May o <u>Com</u>	toxicity in vitro riol: toxicity in vitro toxicity in vivo cell mutagenicity - ssment nogenicity cause cancer. ponents:	:	Result: negative Test Type: Bact Result: negative Test Type: Marr cytogenetic assa Species: Rat Application Rou Result: negative Weight of evider	erial reverse mutation assay (AMES) malian erythrocyte micronucleus test (in vivo ay) te: Oral
Geno Oestr Geno Geno Germ Asses Carci May o <u>Comp</u> Oestr	toxicity in vitro riol: toxicity in vitro toxicity in vitro toxicity in vivo cell mutagenicity - ssment nogenicity cause cancer. conents: riol:	:	Result: negative Test Type: Bact Result: negative Test Type: Marr cytogenetic assa Species: Rat Application Rou Result: negative Weight of evider cell mutagen.	erial reverse mutation assay (AMES) malian erythrocyte micronucleus test (in vivo ay) te: Oral
Geno Oestr Geno Geno Germ Asses Carci May o <u>Comp</u> Oestr	toxicity in vitro riol: toxicity in vitro toxicity in vitro toxicity in vivo cell mutagenicity - ssment nogenicity cause cancer. conents: riol: es	:	Result: negative Test Type: Bact Result: negative Test Type: Man cytogenetic assa Species: Rat Application Rou Result: negative Weight of evider cell mutagen.	erial reverse mutation assay (AMES) malian erythrocyte micronucleus test (in vivo ay) te: Oral
Geno Oestr Geno Geno Geno Germ Asses Carci May o <u>Comp</u> Oestr Applio Resu	toxicity in vitro riol: toxicity in vitro toxicity in vitro toxicity in vivo cell mutagenicity - ssment nogenicity cause cancer. conents: riol: es cation Route	:	Result: negative Test Type: Bact Result: negative Test Type: Marr cytogenetic assa Species: Rat Application Rou Result: negative Weight of evider cell mutagen.	erial reverse mutation assay (AMES) malian erythrocyte micronucleus test (in vivo ay) te: Oral nce does not support classification as a germ



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Resul	cation Route	: :	Hamster Oral positive Kidney	
Carcir ment	nogenicity - Assess-	:	Positive evidence	e from human epidemiological studies
-	oductive toxicity lamage fertility. May dai	mag	e the unborn child	
<u>Comp</u>	oonents:			
Oestr				
Effect	s on fertility	:	Test Type: Fertili Species: Rat, fen Application Route Fertility: LOAEL: Result: Effects on	e: Oral 84 μg/kg
			Species: Rat, fen Application Route	e: Subcutaneous 0,05 mg/kg body weight
			Species: Rat, fen Application Route	e: Subcutaneous 100 mg/kg body weight
Effect	s on fetal development	:	Species: Rat Application Route Developmental T	yo-fetal development e: Oral oxicity: LOAEL: 2 mg/kg body weight /o-fetal toxicity., Malformations were ob-
			Species: Rat Application Route	oxicity: LOAEL: 4,5 mg/kg body weight
			Species: Hamste Application Route	e: Oral oxicity: LOAEL: 30 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	fertility from hum	e of adverse effects on sexual function and an epidemiological studies., Positive rse effects on development from human studies.



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П				
STOT	-single exposure			
Not cl	assified based on ava	ailable inform	nation.	
STOT	-repeated exposure			
				e organs, male reproductive organs, Blood xposure if swallowed.
Comp	oonents:			
Oestr	iol:			
-	et Organs ssment	: Caus		rgans, Blood, Kidney, Bladder e to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
Starc	h:			
Speci		: Rat	000	
NOAE Applic	L cation Route		.000 mg/kg contact	
	sure time	: 28 D	ays	ideline 410
Oestr	iol:			
Speci		: Dog		
LOAE	:L cation Route	: 0,2 n : Oral	ng/kg	
	sure time		26 Weeks	
Targe	et Organs	: fema	ale reprodu	ctive organs, Blood, Kidney, Bladder
Speci	es	: Dog		
LÒAE	—	: 8 mg		
	cation Route sure time	: Subo : 1 y	cutaneous	
	t Organs		e reproduct	ve organs, female reproductive organs
-	ation toxicity			
Not cl	assified based on ava	ailable inform	nation.	
Expe	rience with human e	xposure		
<u>Comp</u>	oonents:			
Oestr				
Inges	tion	testir	nal disturba	ast tenderness, Nausea, Diarrhea, Gastroi ance, Dizziness, Headache, Vomiting, hype a, effects on menstruation, gynecomastia,





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SECTION	12. ECOLOGICAL IN	FORI	MATION	
Ecoto	oxicity			
<u>Com</u>	ponents:			
Oesti	riol:			
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Oryzias Exposure time:	alatipes (Japanese medaka)): 0,000075 mg/l 100 d
M-Fa toxicit	ctor (Chronic aquatic ty)	:	1.000	
	stence and degradab	ility		
	ccumulative potential			
	lity in soil ata available			
	r adverse effects ata available			

Disposal methods

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

SECTION 14. TRANSPORT INFORMATION

UNRTDG	
UN number	: UN 3077
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLIE N.O.S. (Oestriol)
Class	: 9
Packing group	: III
Labels	: 9
Environmentally hazardous	: yes
IATA-DGR	
UN/ID No.	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Oestriol)
Class	: 9
Packing group	: III
Labels	: Miscellaneous



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a F Q	aircraft) Packing ger airc	instruction (passen-	:	956 956 yes	
ι	IMDG-0 UN nun Proper⇒		:	UN 3077 ENVIRONMENTA N.O.S. (Oestriol)	ALLY HAZARDOUS SUBSTANCE, SOLID,
F L E	Class Packing Labels EmS Co Marine		:	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.

Domestic regulation

ANTT UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Oestriol)
Class	:	9
Packing group	:	III
Labels	:	9
Hazard Identification Number	:	90

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.

SECTION 15. REGULATORY INFORMATION

Safety, health and environm mixture	ental regulations/legislation	n specific for the substance or		
National List of Carcinogenic / (LINACH)	Agents for Humans - :	Not applicable		
Brazil. List of chemicals controlled by the Federal : Not applicable Police				
The ingredients of this product are reported in the following inventories:				
AICS	: not determined			
DSL	: not determined			

IECSC	:	not determined



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SECTION 16. OTHER INFORMATION

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Date format	:	dd.mm.yyyy

Further information

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, 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.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA

: 8-hour, time-weighted average

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



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relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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