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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

	Product identifier Trade name	:	Posaconazole Injection Formulation
1.2 R	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Pharmaceutical
	Recommended restrictions on use	:	Not applicable
1.3 D	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Kilsheelan Clonmel Tipperary, IE
-	Telephone	:	353-51-601000
	E-mail address of person	:	EHSDATASTEWARD@msd.com

## **1.4 Emergency telephone number**

responsible for the SDS

+1-908-423-6000

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 Specific target organ toxicity - repeated exposure, Category 2 Long-term (chronic) aquatic hazard, Category 3 H317: May cause an allergic skin reaction. H373: May cause damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

•

Hazard pictograms



Signal word

Hazard statements

H317 May cause an allergic skin reaction.

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		repeated exposu	ise damage to organs through prolonged or ire. to aquatic life with long lasting effects.			
Precau	itionary statements	Prevention:				
		of the workplace P273 Avoid re	nated work clothing should not be allowed out lease to the environment. otective gloves.			
		Response:				
		P333 + P313 I advice/ attention	lical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical Take off contaminated clothing and wash it			

Hazardous components which must be listed on the label: .beta.-Cyclodextrin, sulfobutyl ethers, sodium salts Posaconazole

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

## Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
.betaCyclodextrin, sulfobutyl ethers, sodium salts	182410-00-0 417-710-5	Skin Sens. 1; H317	>= 30 - < 50
Posaconazole	171228-49-2	Eye Irrit. 2; H319 Repr. 2; H361d STOT RE 1; H372 (Adrenal gland,	>= 1 - < 2,5

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			Bone marrow, Kid- ney, Liver, Nervous system, Reproduc- tive organs) Aquatic Acute 1; H400 Aquatic Chronic 1; H410
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of 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.
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).
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.
4.2 Most important sympton	ns and e	effects, both acute and delayed
Symptoms	:	Diarrhoea Fever Headache

Nausea Vomiting



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Risks		:		ergic skin reaction. ge to organs through prolonged or repeated
<b>4.3 Indica</b> Treati	-	meo :		d special treatment needed ically and supportively.
SECTION	I 5: Firefighting meas	sur	es	
-	uishing media ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical	
Unsui media	table extinguishing	:	None known.	
-	al hazards arising from fic hazards during fire- ng			<b>xture</b> bustion products may be a hazard to health.
Hazaı ucts	rdous combustion prod-	:	Carbon oxides Sulphur oxides Metal oxides	
5.3 Advice	e for firefighters			
Speci	al protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
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
SECTION	I 6: Accidental releas	se r	neasures	
	nal precautions, protectional precautions	tive	Use personal pro Follow safe hand	emergency procedures tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).
	onmental precautions	:	Avoid release to Prevent further le	the environment. akage or spillage if safe to do so.
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		barriers). Retain and dispo	ng over a wide area (e.g. by containment or oil ose of contaminated wash water. should be advised if significant spillages ned.
6.3 Method	ds and material for co	ntainment and clean	ing up
Metho	ds for cleaning up	For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	rt absorbent material. provide dyking or other appropriate contain- tterial 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.

## 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## **SECTION 7: Handling and storage**

7.1 Precautions for safe handling	
Technical measures :	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation :	Use only with adequate ventilation.
Advice on safe handling :	Do not get on skin or clothing.
	Do not breathe mist or vapours.
	Do not swallow.
	Avoid contact with eyes.
	Wash skin thoroughly after handling.
	Handle in accordance with good industrial hygiene and safety
	practice, based on the results of the workplace exposure as-
	sessment
	Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
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. Contaminated work clothing should not be allowed out of the workplace. 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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## 7.2 Conditions for safe storage, including any incompatibilities

	Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
	Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases
73	Specific end use(s)		

# 7.3 Specific end use(s)

Specific use(s) : No data available

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Posaconazole	171228-49- 2	TWA	300 µg/m3 (OEB 2)	Internal

### 8.2 Exposure controls

## **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

Eye/face 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.
Hand protection Material		Chemical-resistant gloves
Ohio and hady protection		5
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Equipment should conform to NS EN 143 Particulates type (P)



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## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state	:	Aqueous solution
Colour	:	Colorless to pale yellow
Odour	:	odourless
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	2,6
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Vapour pressure	:	No data available
Relative density	:	No data available

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R	elative vapour density	: No dat	a available	9
Ρ	article characteristics Particle size	: Not ap	plicable	
	her information xplosives	: Not ex	plosive	
С	oxidizing properties	: The su	ibstance o	r mixture is not classified as oxidizing.
E	vaporation rate	: No dat	a available	9
N	lolecular weight	: No dat	a available	9

## **SECTION 10: Stability and reactivity**

10.1 Reactivity				
Not classified as a reactivity ha	ızar	d.		
10.2 Chemical stability				
Stable under normal conditions	s.			
10.3 Possibility of hazardous read	ctio	ns		
Hazardous reactions	:	Can react with strong oxidizing agents.		
10.4 Conditions to avoid				
Conditions to avoid	:	None known.		
10.5 Incompatible materials				
Materials to avoid	:	Oxidizing agents		
10.6 Hazardous decomposition p	rod	ucts		
No hazardous decomposition p	rod	lucts are known.		
SECTION 11: Toxicological information				

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

## Acute toxicity

Not classified based on available information.

## **Components:**

## .beta.-Cyclodextrin, sulfobutyl ethers, sodium salts:

Acute oral toxicity : LD50 (Rat): > 8.800 mg/kg

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Poso	conazole:		
	e oral toxicity	: LD50 (Rat): >	5.000 mg/kg
		LD50 (Mouse)	: > 3.000 mg/kg
Acute	e dermal toxicity	: LD50 (Rat): >	2.000 mg/kg
-	corrosion/irritation lassified based on ava	ailable information.	
Com	ponents:		
<b>Posa</b> Speci Resu		: Rabbit : No skin irritatio	n
	ous eye damage/eye lassified based on ava		
Com	ponents:		
Posa	conazole:		
Speci Resu		: Rabbit : Mild eye irritati	on
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
-	cause an allergic skin		
-	<b>iratory sensitisation</b> lassified based on ava		
Com	ponents:		
	•	butyl ethers, sodium	
Asses	ssment	: Probability or e	evidence of skin sensitisation in humans
Posa	conazole:		
Test <sup>-</sup> Expo	Type sure routes ies	: Magnusson-Kl : Skin contact : Guinea pig	igman-Test

## Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### Posaconazole:



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Geno	otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chron Result: negative	nosomal aberration
Genc	otoxicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: negative	narrow
Carc	inogenicity			
	lassified based on avail	lable	information.	
Com	ponents:			
	iconazole:			
Spec Appli	ies cation Route sure time It	:	Rat oral (feed) 2 Years positive The mechanism o	or mode of action is not relevant in humans.
	cation Route sure time It	:	Mouse Oral 2 Years positive The mechanism o	or mode of action is not relevant in humans.
Not c	oductive toxicity lassified based on avai ponents:	lable	information.	
	Cyclodextrin, sulfob		othere codium c	
	ts on fertility	:	Test Type: Fertilit Species: Rat	
Effec ment	ts on foetal develop-	:	Species: Rat	vo-foetal development e: Intravenous injection
Posa	iconazole:			
	ts on fertility	:	Species: Rat, ma General Toxicity -	y/early embryonic development le - Parent: NOAEL: 180 mg/kg body weight fects on mating performance



ersion	Revision Date: 28.09.2024	SDS Nu 22513-0		Date of last issue: 06.04.2024 Date of first issue: 16.10.2014
		Spe Gen Sym	cies: Rat, fe eral Toxicit	y - Parent: NOAEL: 45 mg/kg body weight effects on mating performance
Effect ment	Effects on foetal develop- ment		cies: Rat, fe lication Rou elopmental	
		Spe Dev	cies: Rabbi	Toxicity: LOAEL: 40 mg/kg body weight
Repro sessn	oductive toxicity - As- nent		ne evidence nal experim	e of adverse effects on development, based on ents.
May c <u>Comp</u>	- repeated exposure cause damage to organ conents:	s through	prolonged	or repeated exposure.
Expos Targe	<b>conazole:</b> sure routes it Organs ssment	: Adre orga : Cau	ins, Nervou ses damag	Bone marrow, Kidney, Liver, Reproductive is system e to organs through prolonged or repeated
Rene	ated dose toxicity	expo	osure.	
	oonents:			
-	conazole:			
Speci LOAE Applic Expos	es	: 5 m : Oral : 6 M	onths	Lungs, Heart, Liver, spleen, Kidney, Ovary
Expos		: Lung	g/kg Days	rain, small intestine, Adrenal gland, Spinal tissue

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Expo		: Monkey : 15 mg/kg : Oral : 1 Months : Bone marrow,	Adrenal gland, Lymph nodes, Blood
Expo		5	, Bone marrow, Kidney, Nervous system, s gland, Testis, lymphoid tissue
Expo		: Monkey : 180 mg/kg : Oral : 12 Months : Blood, Gastro	intestinal tract, spleen
Expo		: Monkey : 8 mg/kg : Intravenous : 1 Months : Cardio-vascul	ar system, Lungs, Adrenal gland, Blood

## Aspiration toxicity

Not classified based on available information.

#### 11.2 Information on other hazards

## **Endocrine disrupting properties**

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Experience with human exposure

#### Components:

## Posaconazole:

Ingestion

: Symptoms: Cough, Headache, Nausea, Vomiting, Fever, Liver effects, Rash, pruritis, Diarrhoea, hypertension, neutropenia, electrolyte imbalance



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## **SECTION 12: Ecological information**

## 12.1 Toxicity

## Components:

.betaCyclodextrin, sulfobutyl ethers, sodium salts:				
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 220 mg/l Exposure time: 96 h		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 96 mg/l Exposure time: 48 h		
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 72 h		
Posaconazole:				
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,95 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,276 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,509 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0,041 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
M-Factor (Acute aquatic tox- icity)	:	1		
Toxicity to microorganisms	:	EC50 (Natural microorganism): > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209		
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0,206 mg/l Exposure time: 33 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210		
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)	:	NOEC: 0,244 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)		

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				est Guideline 211 icity at the limit of solubility
	-Factor (Chronic aquatic xicity)	:	1	
12.2 P	ersistence and degradabi	ility		
<u>C</u> (	omponents:			
P	osaconazole:			
Bi	odegradability	:	Result: Not readi Biodegradation: Exposure time: 2 Method: OECD T	50 %
St	ability in water	:		life (DT50): > 30 d est Guideline 111
12.3 B	ioaccumulative potential			
<u>C</u> (	omponents:			
P	osaconazole:			
Bi	oaccumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 20 est Guideline 305
	artition coefficient: n- stanol/water	:	log Pow: 4,15	
12.4 M	obility in soil			
<u>C</u> (	omponents:			
P	osaconazole:			
	stribution among environ- ental compartments	:	log Koc: 5,52	
12.5 R	esults of PBT and vPvB a	isse	ssment	
<u>P</u> 1	<u>oduct:</u>			
A	ssessment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 E	ndocrine disrupting prop	ertie	es	
<u>P</u> 1	oduct:			
A	ssessment	:	ered to have end REACH Article 5	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at

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levels of 0.1% or higher.

## 12.7 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. 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.

## **SECTION 14: Transport information**

## 14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good

14.4 Packing group

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ADR		: Not regulated	Not regulated as a dangerous good			
RID		: Not regulated	as a dangerous good			
IMDG		: Not regulated	Not regulated as a dangerous good			
IATA (Cargo)		: Not regulated	Not regulated as a dangerous good			
IATA (Passenger)		: Not regulated	Not regulated as a dangerous good			
14.5 Envii	ronmental hazards					
Not re	egulated as a dangero	us good				
14.6 Special precautions for user						
Not applicable						
14.7 Marit	14.7 Maritime transport in bulk according to IMO instruments					
Rema	arks	: Not applicable	e for product as supplied.			

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliam major-accident hazards involving dangerous substances. Not applicable		t and of the Council on the control of



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### Other regulations:

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

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

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

Other information	:	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 H-Statements				
H317	:	May cause an allergic skin reaction.		
H319	:	Causes serious eye irritation.		
H361d	:	Suspected of damaging the unborn child.		
H372	:	Causes damage to organs through prolonged or repeated exposure if swallowed.		
H400	:	Very toxic to aquatic life.		
H410	:	Very toxic to aquatic life with long lasting effects.		
Full text of other abbreviatio	ns			
Aquatic Acute	:	Short-term (acute) aquatic hazard		
Aquatic Chronic	:	Long-term (chronic) aquatic hazard		
Eye Irrit.	:	Eye irritation		
Repr.	:	Reproductive toxicity		
Skin Sens.	:	Skin sensitisation		
STOT RE	:	Specific target organ toxicity - repeated exposure		
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland				

Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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



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- 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

### Further information

Sources of key data used to	:
compile the Safety Data	
Sheet	

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Classification of the m	Classification procedure:	
Skin Sens. 1	H317	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 3	H412	Calculation method

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NO / EN