

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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### **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Multivitamin Aqueous Formulation
1.2	Relevant identified uses of th	ne s	substance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	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 responsible for the SDS	:	EHSDATASTEWARD@msd.com

### 1.4 Emergency telephone number

+1-908-423-6000

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture.

### 2.2 Label elements

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

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### 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.



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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)
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity: 1.620 mg/kg	>= 0,1 - < 1
Riboflavin 5'-(sodium hydrogen phosphate)	130-40-5 204-988-6		< 0,1
Pyridoxine hydrochloride	58-56-0 200-386-2		< 0,1
Cyanocobalamin	68-19-9 200-680-0	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 0,0002 - < 0,0025

For explanation of abbreviations see section 16.

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

#### 4.1 Description of first aid measures

Protection of first-aiders	No special precautions are necessary for	or first aid responders.
If inhaled	If inhaled, remove to fresh air.	

Get medical attention if symptoms occur.



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In cas	e of skin contact		er and soap as a precaution. tention if symptoms occur.
In case of eye contact			h water as a precaution. tention if irritation develops and persists.
lf swa	llowed	Get medical at	DO NOT induce vomiting. tention if symptoms occur. horoughly with water.

# 4.2 Most important symptoms and effects, both acute and delayed

None known.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically and supportively.

## **SECTION 5: Firefighting measures**

:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
:	None known.
he	substance or mixture
:	Exposure to combustion products may be a hazard to health.
:	Carbon oxides
:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
:	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.
	:

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice (see section 7) and personal pro-



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		tective equipn	nent recommendations (see section 8).		
6.2 Enviro	nmental precautions				
<ul> <li>Environmental precautions</li> <li>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 o barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.</li> </ul>					
6.3 Method	ds and material for co	ontainment and cle	aning up		
6.3 Methods and material for con Methods for cleaning up		For large spill ment to keep be pumped, s Clean up rem bent. Local or natio posal of this n employed in th mine which re Sections 13 a	inert absorbent material. s, provide dyking or other appropriate contain- material from spreading. If dyked material can tore recovered material in appropriate container. aining materials from spill with suitable absor- nal regulations may apply to releases and dis- naterial, as well as those materials and items the cleanup of releases. You will need to deter- gulations are applicable. Ind 15 of this SDS provide information regarding r national 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		ring measures under EXPOSURE PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	Use only with Handle in ac	a dequate ventilation. cordance with good industrial hygiene and safety ed on the results of the workplace exposure as-
	sessment Take care to environment.	prevent spills, waste and minimize release to the
Hygiene measures	flushing syste place. When	o chemical is likely during typical use, provide eye ems and safety showers close to the working using do not eat, drink or smoke. Wash contami- g before re-use.
7.2 Conditions for safe storage,	cluding any ind	compatibilities
Requirements for storage areas and containers		erly labelled containers. Store in accordance with national regulations.

## 7.2

areas and containers	:	the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents

Commission Regulation (EU) 2020/878



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		Gases	
7.3 Specific end use(s) Specific use(s) :		: No data availabl	e

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

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Riboflavin 5'- (sodium hydrogen phosphate)	130-40-5	TWA	100 ug/m3 (OEB 2)	Internal
Pyridoxine hydro- chloride	58-56-0	TWA	OEB 3 (>= 10 < 100 µg/m3)	Internal
Cyanocobalamin	68-19-9	TWA	15 µg/m3 (OEB 3)	Internal
		Wipe limit	150 μg/100 cm2	Internal

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
	Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Intermittent use/release	2,3 mg/l

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



0,527 mg/kg

0,456 mg/kg

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		Sewage treatr	ment plant	39 mg/l
		Fresh water s	ediment	5,27 mg/kg

Marine sediment

Soil

### 8.2 Exposure controls

#### **Engineering measures**

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

#### Personal protective equipment

Eye/face protection	:	Wear the following personal protective equipment: Safety glasses Equipment should conform to NS EN 166
Hand protection		
Remarks Skin and body protection Respiratory protection	:	Wash hands before breaks and at the end of workday. Skin should be washed after contact. No personal respiratory protective equipment normally re- quired.

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

#### 9.1 Information on basic physical and chemical properties

Physical state	:	Aqueous solution
Colour	:	red
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/freezing point	:	0°C
Initial boiling point and boiling range	:	100,5 °C
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
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

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	Decon	position temperature	:	No data available	e
	рН		:	No data available	e
	Viscos Vis	ity cosity, kinematic	:	No data availabl	e
		lity(ies) ter solubility	:	No data available	e
		on coefficient: n- I/water	:	Not applicable	
	Vapou	r pressure	:	No data available	e
	Relativ	ve density	:	1,01	
	Densit	у	:	No data available	e
	Relativ	ve vapour density	:	No data available	e
		e characteristics ticle size	:	Not applicable	
9.2	Other i	nformation			
	Explos	sives	:	Not explosive	
	Oxidiz	ing properties	:	The substance of	r mixture is not classified as oxidizing.
	Evapo	ration rate	:	No data available	e
	Molec	ular weight	:	No data available	e

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

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Can react with strong oxidizing agents.
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#### 10.4 Conditions to avoid

Conditions to avoid : None known.

#### 10.5 Incompatible materials



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Materia	als to avoid	:	Oxidizing agents	5
	dous decomposition ardous decompositio	-		
SECTION	11: Toxicological	infor	mation	
1.1 Inform	ation on hazard clas	sses	as defined in Reg	gulation (EC) No 1272/2008
Informa exposu	ation on likely routes ( ire	of :	Inhalation Skin contact Ingestion Eye contact	
	<b>toxicity</b> ssified based on avai	lable	information.	
Compo	onents:			
-	l alcohol: oral toxicity	:	LD50 (Rat): 1.620	0 mg/kg
Acute i	nhalation toxicity	:	LC50 (Rat): > 4,1 Exposure time: 4 Test atmosphere Method: OECD T	h
Ribofla	avin 5'-(sodium hydı	roger	phosphate):	
Acute of	oral toxicity	:	LD50 (Rat): > 20	.000 mg/kg
Pyrido	xine hydrochloride:			
Acute of	oral toxicity	:	LD50 (Rat): 4.00	0 mg/kg
Cyano	cobalamin:			
Acute of	oral toxicity	:	LD50 (Rat): > 5.0	000 mg/kg
	orrosion/irritation ssified based on avai	lable	information.	
<u>Compo</u>	onents:			
Benzy	l alcohol:			
Specie Methoo Result		:	Rabbit OECD Test Guid No skin irritation	eline 404
Pyrido	xine hydrochloride:			
Specie Result	-	:	Rabbit No skin irritation	

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### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

### Benzyl alcohol:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irritation to eyes, reversing within 21 days

#### Pyridoxine hydrochloride:

Species	:	Rabbit
Result	:	No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **Benzyl alcohol:**

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

#### Pyridoxine hydrochloride:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

#### Germ cell mutagenicity

Not classified based on available information.

#### Components:

Benzyl alcohol:		
Genotoxicity in vitro		st Type: Bacterial reverse mutation assay (AMES) sult: negative
Genotoxicity in vivo	cyt Sp Ap	st Type: Mammalian erythrocyte micronucleus test (in vivo ogenetic assay) ecies: Mouse plication Route: Intraperitoneal injection sult: negative



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	Dibofle	win 5' (codium hydro		nhoonhoto)	
		ivin 5'-(sodium hydro xicity in vitro	:	Test Type: Bacte Method: OECD T Result: negative	
				Remarks: Based	on data from similar materials
					nosome aberration test in vitro est Guideline 473
					on data from similar materials
	Pyrido	xine hydrochloride:			
	-	xicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
	Cyano	cobalamin:			
	Genoto	xicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
		<b>ogenicity</b> ssified based on availa	able	information.	
	Compo	onents:			
	Benzyl	alcohol:			
	Specie: Applica	s tion Route	:	Mouse Ingestion	
		ire time	:	103 weeks OECD Test Guide	alian 451
	Result		:	negative	
	Reproc	luctive toxicity			
	•	ssified based on availa	able	information.	
	Compo	onents:			
	-	alcohol:			
	Effects	on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-foetal development : Ingestion

### Pyridoxine hydrochloride:

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



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Effect ment	s on foetal develop-	: Test Type: Embr Species: Rat Application Route Result: negative	yo-foetal development e: Ingestion
	- single exposure assified based on avail	able information.	

#### STOT - repeated exposure

Not classified based on available information.

### **Repeated dose toxicity**

#### **Components:**

#### Benzyl alcohol:

Species	:	Rat
NOAEL	:	1,072 mg/l
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	28 Days
Method	:	OECD Test Guideline 412

#### Riboflavin 5'-(sodium hydrogen phosphate):

Rat
> 100 mg/kg
Ingestion
13 Weeks
OECD Test Guideline 408
Based on data from similar materials

#### 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.

#### **SECTION 12: Ecological information**

### 12.1 Toxicity

### Components:

### Benzyl alcohol:



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	Toxicity	r to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 51 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	Ribofla	vin 5'-(sodium hydro	aen	phosphate):	
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 64,3 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 47,4 mg/l 3 h on data from similar materials
	Pyrido	xine hydrochloride:			
	Toxicity	•	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l 3 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h
	Cyano	cobalamin:			
	Toxicity		:	Exposure time: 14	hus mykiss (rainbow trout)): > 1 - 10 mg/l l d on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 10 - 100 mg/l 3 h on data from similar materials
	Toxicity plants	to algae/aquatic	:	Exposure time: 72	arvula (marine algae)): > 0,1 - 1 mg/l ? h on data from similar materials

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				Exposure time: 7	nor (common duckweed)): > 0,1 - 1 mg/l d on data from similar materials
	M-Fact icity)	or (Acute aquatic tox-	:	1	
	Toxicity icity)	/ to fish (Chronic tox-	:	Exposure time: 1 Species: Danio re	
á		/ to daphnia and other invertebrates (Chron- ity)	:		
12.2	Persis	tence and degradabil	ity		
<u>(</u>	Compo	onents:			
I	Benzyl	alcohol:			
E	Biodeg	radability	•	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %
F	Ribofla	avin 5'-(sodium hydro	ger	phosphate):	
E	Biodeg	radability	:	Result: Readily b Remarks: Based	iodegradable. on data from similar materials
I	Pyrido	xine hydrochloride:			
E	Biodeg	radability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	94 %
12.3	Bioaco	cumulative potential			
<u>q</u>	Compo	onents:			
F	-	<b>alcohol:</b> n coefficient: n- /water	:	log Pow: 1,05	
F	Ribofla	avin 5'-(sodium hydro	ger	phosphate):	
F		n coefficient: n-	:	log Pow: -0,651 Remarks: Calcula	ation
	-	xine hydrochloride:			
F	Partitio	n coefficient: n-	:	log Pow: 4,32	



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#### octanol/water

12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment

: 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.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment	: The substance/mixture does not contain components consid- ered 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.

#### 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

: Not regulated as a dangerous good	ł
: Not regulated as a dangerous good	ł
: Not regulated as a dangerous good	ł
: Not regulated as a dangerous good	ł
: Not regulated as a dangerous good	ł
	<ul> <li>Not regulated as a dangerous good</li> </ul>

14.2 UN proper shipping name



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AC	N	:	Not regulated as	a dangerous good		
AD			-	a dangerous good		
RI			0	0 0		
			-	a dangerous good		
	DG		-	a dangerous good		
			Not regulated as	a dangerous good		
14.3 Transport hazard class(es)						
AD	<b>N</b>	:	Not regulated as	a dangerous good		
AC	<b>DR</b>	:	Not regulated as	a dangerous good		
RI	D	:	Not regulated as	a dangerous good		
IM	DG	:	Not regulated as	a dangerous good		
IA	ГА	:	Not regulated as	a dangerous good		
14.4 Packing group						
AD	N	:	Not regulated as	a dangerous good		
AC	<b>D</b> R	:	Not regulated as	a dangerous good		
RI	ס	:	Not regulated as	a dangerous good		
IM	DG	:	Not regulated as	a dangerous good		
IA	ΓA (Cargo)	:	Not regulated as	a dangerous good		
IA	TA (Passenger)	:	Not regulated as	a dangerous good		
14.5 Environmental hazards						
Not regulated as a dangerous good						
14.6 Special precautions for user Not applicable						
14.7 Maritime transport in bulk according to IMO instruments						
Re	marks	:	Not applicable 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 following entries should be considered: Number on list 75

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 conditions in corresponding Regulation to determine whether an entry is appli-

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					cable to the placing on the market or not. If you intend to use this product as tattoo ink, please contact your ven- dor.
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) No 1005/2009 on substances that deplete the ozone layer			de-	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)			ollu-	:	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 Parliament and of the Council on the control major-accident hazards involving dangerous substances.					t and of the Council on the control of

Not applicable

#### 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					
H302	:	Harmful if swallowed.			
H319	:	Causes serious eye irritation.			
H332	:	Harmful if inhaled.			
H400	:	Very toxic to aquatic life.			
H411	:	Toxic to aquatic life with long lasting effects.			
Full text of other abbreviations					
Acute Tox.	:	Acute toxicity			
Aquatic Acute	:	Short-term (acute) aquatic hazard			
Aquatic Chronic	:	Long-term (chronic) aquatic hazard			

Eye Irrit. : Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by



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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 - 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/

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

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