According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Florfenicol Solid Formulation

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

1.1	Product identifier Trade name	:	Florfenicol Solid Formulation
12	Relevant identified uses of th	10 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 Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Reproductive toxicity, Category 2	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity - repeated	H372: Causes damage to organs through pro-
exposure, Category 1	longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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Hazard pictograms		:		*
Signa	al word	:	Danger	•
Hazard statements		:	H361fd H372	Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.
			H410	Very toxic to aquatic life with long lasting effects.
Preca	autionary statements	:	Prevention	:
	·		P201 P260 P273 P280	Obtain special instructions before use. Do not breathe dust. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
			Response: P308 + P31	3 IF exposed or concerned: Get medical advice/ attention.
			P391	Collect spillage.

Hazardous components which must be listed on the label: Florfenicol

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.

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

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Florfenicol	73231-34-2	Repr. 2; H361fd STOT RE 1; H372 (Liver, Brain, Tes- tis, Spinal cord, Blood, gallbladder) Aquatic Acute 1; H400	>= 50 - < 70

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			Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measure	es
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 :	If in eyes, rinse well with water. 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 symptoms and	effects, both acute and delayed
Risks :	Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.

4.3 Indication of any immediate medical attention and special treatment needed

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Trea	atment	:	Treat symptoma	tically and supportively.
SECTIC	N 5: Firefighting meas	sur	es	
5.1 Extir	nguishing media			
Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical	
	Unsuitable extinguishing media		None known.	
5.2 Spec	cial hazards arising from	the	substance or m	ixture
Specific hazards during fire- fighting		:	concentrations, a potential dust ex	g dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a plosion hazard. hbustion products may be a hazard to health.
	Hazardous combustion prod- ucts		Carbon oxides Nitrogen oxides	(NOx)
5.3 Advi	ce for firefighters			
	cial protective equipment irefighters	:		re, wear self-contained breathing apparatus. otective equipment.
Specific extinguishing meth- ods		:	cumstances and Use water spray	ng measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to de

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions	
Environmental precautions	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).



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6.3 Methods and material for containment and cleaning up

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	:	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	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe dust.
_		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
		Minimize dust generation and accumulation.
		Keep container closed when not in use.
		Keep away from heat and sources of ignition.
		Take precautionary measures against static discharges.
		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. Wash contami-
		nated 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, Requirements for storage areas and containers			 including any incompatibilities Keep in properly labelled containers. Store locked up. S accordance with the particular national regulations. 			
Advice on common storage		:	Strong oxidizing	stances and mixtures		
-	f ic end use(s) fic use(s)	:	No data available			

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

dust of any kind

10 mg/m3 Value type (Form of exposure): TWA (Inhalable) Basis: GB EH40

4 mg/m3

Value type (Form of exposure): TWA (Respirable fraction) Basis: GB EH40

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Florfenicol	73231-34-2	TWA	100 µg/m3 (OEB 2)	Internal

8.2 Exposure controls

Engineering measures

Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

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						
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo-						



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Fil	lter type	ommended guid	nt demonstrates exposures outside the rec- delines, use respiratory protection. uld conform to BS EN 143 e (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	powder white No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	::	No data available Not applicable No data available
Decomposition temperature	:	No data available
Viscosity	•	
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive

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Oxidi	zing properties	:	The substance	or mixture is not classified as oxidizing.
9.2 Other	information			
Flam	mability (liquids)	:	No data availab	le
Partio	cle size	:	No data availab	le
SECTIO	N 10: Stability and I	reactiv	vity	
10.1 Read Not c	ctivity lassified as a reactivity	y hazar	d.	
	nical stability e under normal condit	ions.		
10.3 Poss	sibility of hazardous	reactio	ns	
Haza	rdous reactions	:	dling or other m	sive dust-air mixture during processing, han- leans. strong oxidizing agents.
10.4 Cond	ditions to avoid			
Cond	litions to avoid	:	Heat, flames ar Avoid dust form	
10.5 Inco	mpatible materials			
Mate	rials to avoid	:	Oxidizing agent	s
10.6 Haza	ardous decompositio	n prod	ucts	
No ha	azardous decompositio	on prod	lucts are known.	
SECTIO	N 11: Toxicological	inforr	nation	
11.1 Infor	mation on toxicologi	ical eff	ects	
Inforr expo	nation on likely routes sure	of :	Inhalation Skin contact Ingestion Eye contact	
	e toxicity classified based on ava	ailable i	nformation.	
<u>Com</u>	ponents:			
Florf	enicol:			
Acute	e oral toxicity	:	LD50 (Rat): > 2,	000 mg/kg
			LD50 (Mouse): >	> 2,000 mg/kg



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				LD50 (Dog): > 1,2	80 mg/kg
A	Acute in	halation toxicity	:	LC50 (Rat): > 0.28 Exposure time: 4 I	
A	Acute d	ermal toxicity	:	Remarks: No data	available
		oxicity (other routes of tration)	:	LD50 (Rat): 1,913 Application Route:	
				LD50 (Mouse): 10 Application Route:	
-		prosion/irritation sified based on availa	ble	information.	
<u>c</u>	Compo	nents:			
F	lorfen	icol:			
	Species Result	;	:	Rabbit No skin irritation	
5	Serious	s eye damage/eye irri	tati	on	
١	Not clas	sified based on availa	ble	information.	
<u>c</u>	Compo	nents:			
F	lorfen	icol:			
	Species Result		:	Rabbit Mild eye irritation	
F	Respira	atory or skin sensitis	atio	n	
-		nsitisation sified based on availa	ble	information.	
	-	atory sensitisation sified based on availa	ble	information.	
<u>c</u>	Compo	nents:			

Florfenicol:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Florfenicol:



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Genotoxicity in vitro		: Test Type: Bacterial reverse mutation assay (AMES) Result: negative					
		Test Type: DNA dam thesis in mammalian Test system: rat hep Result: negative					
		Test Type: In vitro m Test system: mouse Result: negative	ammalian cell gene mutation test lymphoma cells				
			ome aberration test in vitro e hamster ovary cells				
Geno	toxicity in vivo	: Test Type: Micronuc Species: Mouse Cell type: Bone marr Application Route: O Result: negative	ow				

Carcinogenicity

Not classified based on available information.

Components:

Florfenicol:		
Species Application Route Exposure time Result Target Organs	:	Rat oral (gavage) 2 Years negative Liver, Testes
Species Application Route Exposure time Result Target Organs	: : : : :	Mouse oral (gavage) 2 Years negative Testes, Blood

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

Components:

Florfenicol:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat	
		Application Route: Oral	
		Fertility: LOAEL: 12 mg/kg body weight	
		Result: decreased pup survival, reduced lactation	



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Effects on foetal develop- ment		Species: Rat General Toxicit Embryo-foetal t Result: No tera	oryo-foetal development y Maternal: NOAEL: 4 mg/kg body weight coxicity: LOAEL: 40 mg/kg body weight togenic effects, Fetotoxicity effects were seen only at maternally toxic dos-
		Species: Mouse Application Roo General Toxicit	ute: oral (gavage) y Maternal: NOAEL: 120 mg/kg body weight coxicity: LOAEL: 40 mg/kg body weight
Repro sessm	ductive toxicity - As- ient	fertility, based of	e of adverse effects on sexual function and on animal experiments., Some evidence of on development, based on animal experi-

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

: Dog : 3 mg/kg

:

13 Weeks

: Mouse : 200 mg/kg

: 13 Weeks

: Liver, Testis

Components:

Florfenicol:	
Target Organs	: Liver, Brain, Testis, Spinal cord, Blood, gallbladder
Assessment	: Causes damage to organs through prolonged or repeated
	exposure.

: Liver, Testis, Brain, Spinal cord

Repeated dose toxicity

Components:

Florfenicol:

Species NOAEL Exposure time Target Organs

Species NOAEL Exposure time Target Organs

Species	:	Rat
NOAEL	:	30 mg/kg
Exposure time	:	13 Weeks
Target Organs	:	Liver, Testis

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	EL	: Dog : 3 mg/kg : 12 mg/kg : 52 Weeks : Liver, gallbladd	der
	EL	: Rat : 1 mg/kg : 3 mg/kg : 52 Weeks : Testis	

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

1

12.1	Toxicity		
	Components:		
	Florfenicol:		
	Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 830 mg/l Exposure time: 96 h Method: FDA 4.11
			LC50 (Oncorhynchus mykiss (rainbow trout)): > 780 mg/l Exposure time: 96 h Method: FDA 4.11
	Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 330 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
	Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 2.9 mg/l Exposure time: 14 d Method: FDA 4.01
			NOEC (Pseudokirchneriella subcapitata (green algae)): 2.9 mg/l Exposure time: 14 d Method: FDA 4.01
			IC50 (Skeletonema costatum (marine diatom)): 0.0336 mg/l Exposure time: 72 h Method: ISO 10253
			NOEC (Skeletonema costatum (marine diatom)): 0.00423 mg/l Exposure time: 72 h Method: ISO 10253

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		EC50 (Lemna gibba (gibbous duckweed)): 0.76 mg/l Exposure time: 7 d Method: OECD Test Guideline 221	
		NOEC (Lemna gibba (gibbous duckweed)): 0.39 mg/l Exposure time: 7 d Method: OECD Test Guideline 221	
		EC50 (Navicula pelliculosa (Freshwater diatom)): 61 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
		NOEC (Navicula pelliculosa (Freshwater diatom)): 19 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
		EC50 (Anabaena flos-aquae): 0.066 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
		NOEC (Anabaena flos-aquae): 0.051 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
M-Fact icity)	tor (Acute aquatic tox-	: 10	
Toxicit icity)	y to fish (Chronic tox-	 NOEC: 5.5 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210 	
	y to daphnia and other c invertebrates (Chron- ity)	 NOEC: 1.5 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 	
M-Fact toxicity	tor (Chronic aquatic	: 10	
	a available	у	
12.3 Bioaco	cumulative potential		
Comp	onents:		
Florfer Partitic octano	on coefficient: n-	: log Pow: 0.373 pH: 7	

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12.4 Mobility in soil

Components:

Florfenicol:

Distribution among environ-	:	Koc: 52
mental compartments		Method: FDA 3.08

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 Other adverse effects	

Product:

Endocrine disrupting poten-		This substance/mixture does not contain components consid-
1 01	•	
tial		ered to have endocrine disrupting properties for environment
		according to UK REACH Article 57(f).

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

ADN	: (JN 3077
ADR	: (JN 3077
RID	: (JN 3077
IMDG	: (JN 3077
ΙΑΤΑ	: (UN 3077

14.2 UN proper shipping name

Α	D	Ν
	-	

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

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		N.O.S. (Florfenicol)	
ADR		: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL N.O.S. (Florfenicol)	.ID,
RID		: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL N.O.S. (Florfenicol)	.ID,
IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL N.O.S. (Florfenicol)	.ID,
ΙΑΤΑ		: Environmentally hazardous substance, solid, n.o.s. (Florfenicol)	
14.3 Trans	sport hazard class(es)		
		Class Subsidiary risks	
ADN		: 9	
ADR		: 9	
RID		: 9	
IMDG	;	: 9	
ΙΑΤΑ		: 9	
14.4 Pack	ing group		
ADN			
	ng group ification Code	: III : M7	
	rd Identification Number		
Label	S	: 9	
ADR			
	ng group sification Code	: III : M7	
Haza	rd Identification Number	: 90	
Label Tunne	s el restriction code	: 9 : (-)	
RID		. ()	
Packi	ng group	: 111	
	ification Code rd Identification Number	: M7 : 90	
Label		: 9	
IMDG			
	ng group	: 111	
Label EmS		: 9 : F-A, S-F	
ΙΑΤΑ	(Cargo) ng instruction (cargo	: 956	

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Pa Pa	craft) cking instruction (LQ) cking group bels	: Y956 : III : Miscellaneou	s
Pa ge Pa Pa	TA (Passenger) cking instruction (passen- r aircraft) cking instruction (LQ) cking group bels	: 956 : Y956 : III : Miscellaneou	S
14.5 Er	vironmental hazards		
	vironmentally hazardous	: yes	
AC En	DR vironmentally hazardous	: yes	
Ri l En	D vironmentally hazardous	: yes	
	DG arine pollutant	: yes	
	TA (Passenger) vironmentally hazardous	: yes	
	TA (Cargo) vironmentally hazardous	: yes	
•	pecial precautions for use		

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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks	:	Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Not applicable
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable



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	EACH List of substanc ex XIV)	ces subject to authorisa	ation : Not applicable		
GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation					
Control of Major Accident Hazards Regulations 2015 (COMAH)					
E1	-	ENVIRONMEN ⁻ HAZARDS	Quantity 1 Quantity 2		

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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		
H361fd	:	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410		Very toxic to aquatic life with long lasting effects.
Full text of other abbreviation	ons	
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Repr.	:	Reproductive toxicity
STOT RE	:	Specific target organ toxicity - repeated exposure
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

ADN - European 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 Test-



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ing 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

compile the Safety Data Sheet

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

Classification of the mixtur	Classification procedure:	
Repr. 2	H361fd	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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



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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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