

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier								
Trade name	:	Recombinant Bovine Somatotropin Formulation						
1.2 Relevant identified uses of t	1.2 Relevant identified uses of the 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	e saf	fety 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)

Eye irritation, Category 2 Long-term (chronic) aquatic hazard, Category 3 H319: Causes serious eye irritation. H412: Harmful 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)

Hazard pictograms



UK REACH Regulations SI 2019/758



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Signa	l word	: Warning	
Hazar	d statements	: H319 H412	Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Preca	utionary statements	: Prevent P264 P273 P280 Respon	Wash skin thoroughly after handling. Avoid release to the environment. Wear eye protection/ face protection.
		P337 +	

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Recombinant Bovine Somatotropin	Not Assigned		>= 20 - < 30
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	>= 10 - < 20
Benzyl benzoate	120-51-4 204-402-9 607-085-00-9	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 10 - < 20

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-



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			vice immediately When symptoms advice.	persist or in all cases of doubt seek medical	
Prote	ction of first-aiders	:	and use the reco	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).	
lf inha	aled	:	If inhaled, removed Get medical atter	e to fresh air. htion if symptoms occur.	
In cas	se of skin contact	:		and soap as a precaution. ntion if symptoms occur.	
In cas	se of eye contact	:	for at least 15 mi	nove contact lens, if worn.	
If swallowed		:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
4.2 Most i	mportant symptoms a	nd e	effects, both acut	e and delayed	
Risks		:	Causes serious e	eye irritation.	
4.3 Indica	tion of any immediate	med	lical attention an	d special treatment needed	
Treat	ment	:	Treat symptomat	ically and supportively.	
SECTION					
	1 5: Firefighting meas	sur	es		
5.1 Exting	I 5: Firefighting measure uishing media	sur	es		
-			es Water spray Alcohol-resistant Carbon dioxide (Dry chemical		
Suital	uishing media ble extinguishing media itable extinguishing		Water spray Alcohol-resistant Carbon dioxide (Dry chemical		
Suital Unsui media	uishing media ole extinguishing media itable extinguishing	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical None known.	CO2)	
Suital Unsui media 5.2 Specia	uishing media ole extinguishing media itable extinguishing a al hazards arising from fic hazards during fire-	: :	Water spray Alcohol-resistant Carbon dioxide (Dry chemical None known.	CO2)	



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5.3 Ad	vice for firefighters			
	ecial protective equipment firefighters	:		e, wear self-contained breathing apparatus. tective equipment.
Sp od	ecific extinguishing meth- s	:	cumstances and t Use water spray t	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 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions : Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective 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. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent.	
	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or 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

: See Engineering measures under EXPOSURE



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	Advice	Total ventilation on safe handling ne measures		 CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. Avoid inhalation of vapour or mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and s practice, based on the results of the workplace exposure sessment Take care to prevent spills, waste and minimize release environment. If exposure to chemical is likely during typical use, provid flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash con nated clothing before re-use. The effective operation of a facility should include review engineering controls, proper personal protective equipm appropriate degowning and decontamination procedures industrial hygiene monitoring, medical surveillance and t 	
7.2 (Conditi	ons for safe storage,	inc	luding any incom	patibilities
	•	ements for storage and containers	:	Keep in properly the particular nat	labelled containers. Store in accordance with ional regulations.
	Advice	on common storage	:	Do not store with Strong oxidizing a Gases	the following product types: agents
7.3 \$	Specifi	c end use(s)			
	-	c 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
Recombinant Bo- vine Somatotropin	Not As- signed	TWA	OEB 3 (>= 10 < 100 μg/m3)	Internal

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Benzyl benzoate	Workers	Inhalation	Long-term systemic effects	5.1 mg/m3

SAFETY DATA SHEET

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



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		Workers	Inhalation	Acute systemic ef- fects	102 mg/m3
		Workers	Skin contact	Long-term systemic effects	2.6 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	1.25 mg/m3
		Consumers	Inhalation	Acute systemic ef- fects	25 mg/m3
		Consumers	Skin contact	Long-term systemic effects	1.3 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0.4 mg/kg bw/day
		Consumers	Ingestion	Acute systemic ef- fects	78 mg/kg bw/day
	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):

Substance name	Environmental Compartment	Value
Benzyl benzoate	Fresh water	0.017 mg/l
	Marine water	0.002 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	10.66 mg/kg dry weight (d.w.)
	Marine sediment	1.07 mg/kg dry weight (d.w.)
	Soil	2.12 mg/kg dry weight (d.w.)
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0.1 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5.27 mg/kg



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		Marine sedim	ent	0.527 mg/kg
		Soil	0.456 ma/ka	

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.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Personal protective equipment

Eye/face protection Hand 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.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 14387 Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	suspension opaque, yellow musty No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available



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	range Flash point		:	No data available	9
	Evaporation rate		:	No data available	9
	Flamm	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	r pressure	:	No data available	
	Relativ	e vapour density	:	No data available	2
	Relativ	e density	:	No data available	2
	Density	ý	:	No data available	2
	Partitio octano	ter solubility n coefficient: n-	:	No data available No data available No data available	9
	Decom	position temperature	:	No data available	9
		cosity, dynamic	:	No data available	
		cosity, kinematic	:	No data available)
	•	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
		nformation			
	Flamm	ability (liquids)	:	No data available	9
	Molecu	ılar weight	:	No data available	9
	Particle	e size	:	No data available	9



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SECTION 10: Stability and reactivity

SECTION 10: Stability and reactivity								
10.1 Reactivity Not classified as a reactivity haza	10.1 Reactivity Not classified as a reactivity hazard.							
10.2 Chemical stability Stable under normal conditions.	-							
10.3 Possibility of hazardous reaction	ons							
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 proc	lucts							
No hazardous decomposition pro-	ducts are known.							
SECTION 11: Toxicological infor	mation							
11.1 Information on toxicological effects								
Information on likely routes of :	Inhalation							
exposure	Skin contact Ingestion							
	Eye contact							
Acute toxicity								

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Components:

Recombinant Bovine Somatotropin:

Acute inhalation toxicity	:	LC50 (Rat): 30,000 mg/l
		Exposure time: 1 h
		Test atmosphere: dust/mist



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Benz	yl alcohol:			
	e oral toxicity	:	LD50 (Rat): 1,620) mg/kg
Acute inhalation toxicity		:	LC50 (Rat): > 4.1 Exposure time: 4 Test atmosphere: Method: OECD T	h
Benz	yl benzoate:			
	oral toxicity	:	LD50 (Rat): 1,700) mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
-	corrosion/irritation lassified based on ava	ilable	information.	
<u>Com</u>	ponents:			
Reco	mbinant Bovine Som	atotr	opin:	
Speci Rema		:	Rabbit slight irritation	
Benz	yl alcohol:			
Speci Metho Resul	bd	:	Rabbit OECD Test Guide No skin irritation	eline 404
Benz	yl benzoate:			
Speci Metho Resu	les od	:	Rabbit OECD Test Guide No skin irritation	eline 404
	us eye damage/eye in es serious eye intritation		on	
Com	oonents:			
Reco	mbinant Bovine Som	atotr	opin:	
Speci Rema		:	Rabbit slight irritation	
Benz	yl alcohol:			
Speci Metho Resu	les od	:	Rabbit OECD Test Guide Irritation to eyes,	eline 405 reversing within 21 days

Benzyl benzoate:



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Species Result		: Rabbit : No eye irritat	: Rabbit : No eye irritation				
Resp	iratory or skin sens	itisation					
-	sensitisation lassified based on av	ailable information.					
-	iratory sensitisatior lassified based on av						
<u>Com</u>	oonents:						
Test ⁻	sure routes les od	: Maximisation : Skin contact : Guinea pig : OECD Test (: negative	n Test Guideline 406				
Benz	yl benzoate:						
Test Expos Speci Metho Resu	sure routes les od	: Skin contact : Mouse	node assay (LLNA) Guideline 429				
Germ	cell mutagenicity						
Not c	lassified based on av	ailable information.					
<u>Com</u>	oonents:						
	yl alcohol: toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive				
Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Intraperitoneal injection				
Benz	yl benzoate:						
Geno	toxicity in vitro	Result: nega					
		Result: posit	n vitro mammalian cell gene mutation test ive Ised on data from similar materials				



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		F	Result: negative	nosome aberration test in vitro on data from similar materials
Geno	toxicity in vivo	r S A F	nammalian liver Species: Rat Application Route Result: negative	
	i nogenicity lassified based on avai	ilable in	formation.	
Com	ponents:			
Spec Appli	cation Route sure time od	: : ^ : (Mouse ngestion 103 weeks DECD Test Guid negative	eline 451
Not c	oductive toxicity lassified based on avai ponents:	lable in	formation.	
	yl alcohol:			
	ts on fertility	5 / F	Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials
Effec ment	ts on foetal develop-	9	Fest Type: Embr Species: Mouse Application Route Result: negative	yo-foetal development e: Ingestion
Benz	yl benzoate:			
Effec ment	ts on foetal develop-	9	Fest Type: Embr Species: Rat Application Route Result: negative	yo-foetal development e: Ingestion

STOT - single exposure

Not classified based on available information.



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STO	Г - repeated exposu	re		
Not c	lassified based on av	ailable	information.	
Repe	ated dose toxicity			
<u>Com</u>	ponents:			
Reco	mbinant Bovine Sor	matotro	opin:	
Spec Expo Rema	sure time	:	Rat 90 d No significant a	adverse effects were reported
Benz	yl alcohol:			
	EL cation Route sure time		Rat 1.072 mg/l inhalation (dus 28 Days OECD Test Gu	
Benz	yl benzoate:			
Spec NOA Appli	ies	:	Rat 781 mg/kg Skin contact 4 Weeks	

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Benzyl alcohol:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 310



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				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 To	magna (Water flea)
	Benzvl	benzoate:			
	Toxicity		:	Exposure time: 96	(zebra fish)): 2.32 mg/l 3 h on (EC) No. 440/2008, Annex, C.1
		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	
	M-Facto icity)	or (Acute aquatic tox-	:	1	
	Toxicity	to microorganisms	:	EC50 : > 10,000 r Exposure time: 3 Method: ISO 8192	h
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.258 mg/ Exposure time: 21 Species: Daphnia Method: OECD To	d magna (Water flea)
12.2	Persist	tence and degradabil	ity		
	Compo	onents:			
	Benzyl	alcohol:			
	-	radability	:	Result: Readily bi Biodegradation: 9 Exposure time: 14	92 - 96 %

Benzyl benzoate:



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B	Biodeg	radability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: Directive	94 %
12.3 E	Bioaco	umulative potential			
<u>c</u>	Compo	onents:			
Р	•	alcohol: n coefficient: n- /water	:	log Pow: 1.05	
	-	benzoate:			
	Partition Octanol	n coefficient: n- /water	:	log Pow: 4 Method: OECD T	est Guideline 117
		y in soil a available			
12.5 F	Result	s of PBT and vPvB as	sse	ssment	
	Produc Assess	_	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
12.6 0	Other a	adverse effects			
E	Produc Endocri ial	<u>et:</u> ine disrupting poten-	:	ered to have endo	ixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).
SECI	TION [·]	13: Disposal consid	dera	ations	

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	:	



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SECTION 14: Transport information

14.1 UN 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			
	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	
	IATA (Cargo)	:	Not regulated as a dangerous good	
	IATA (Passenger)	:	Not regulated as a dangerous good	
14.5	Environmental hazards			
Not regulated as a dangerous good				

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Remarks : Not applicable for product as supplied.



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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)	:	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.
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 Brit- ain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (CC Not applicable	OMA	λH)

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.
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Full to	ext 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 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/



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Classification of the mixture:		ure:	Classification procedure:
Eye Ir	rrit. 2	H319	Calculation method
Aquat	tic Chronic 3	H412	Calculation method

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