

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Amoxicillin Trihydrate Liquid 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 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)

Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 2	H411: 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)

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



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Haza	rd pictograms	:		¥2
Signa	l word	:	Danger	•
Hazai	rd statements	:	H334	May cause allergy or asthma symptoms or breath- ing difficulties if inhaled.
			H410	Very toxic to aquatic life with long lasting effects.
Preca	utionary statements	:	Prevention	:
			P273	Avoid release to the environment.
			Response:	
			P304 + P34	0 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
			P342 + P31	
			P391	Collect spillage.

Hazardous components which must be listed on the label: Amoxicillin Trihydrate

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)
Amoxicillin Trihydrate	61336-70-7	Resp. Sens. 1A; H334 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 1	>= 10 - < 20

For explanation of abbreviations see section 16.

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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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.			
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.			
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 if symptoms occur. Rinse mouth thoroughly with water.			
4.2 Most important symptoms a	nd e	effects, both acute and delayed			
Risks	:	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.			
		Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).			
4.3 Indication of any immediate	me	dical attention and special treatment needed			
Treatment	:	Treat symptomatically and supportively.			

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing	:	None known.



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media

5.2 Special hazards arising from the substance or mixture

	Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
	Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

•	•				-	
Personal precaution	s	:	Use persor	nal protect	tive eq	quipment.
				0		ce (see section 7) and personal pro-
			tective equ	ipment red	comm	nendations (see section 8).

6.2 Environmental precautions

Prevent spreading over a wide area (e.g. by containment or barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ-	Environmental precautions	,
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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.

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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 Advice on safe handling	:	Use only with adequate ventilation. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. Take care to prevent spills, waste and minimize release to the
	Hygiene measures	:	environment. 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.
7.2	Conditions for safe storage, i	incl	uding any incompatibilities
	Requirements for storage areas and containers	:	Keep in properly labelled containers. Keep tightly closed. Store in accordance with the particular national regulations.
	Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Gases

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

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	Components		CAS-No.	Value type (Form	Control parameters	Basis

		of exposure)			
Amoxicillin Trihy- drate	61336-70-7	TWA	1 mg/m3 (OEB 1)	Internal	
	Further information: RSEN				

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
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. Equipment should conform to BS EN 143
Filter type	:	Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	suspension white strong 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	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable

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		explosion limit / Upper ability limit	:	No data available	e
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	r pressure	:	No data available	e
	Relativ	ve vapour density	:	No data available	e
	Relativ	ve density	:	No data available	e
	Densit	у	:	0.99 - 1.10 g/l	
	Wa Partitic octano	lity(ies) ter solubility on coefficient: n- I/water gnition temperature	:	No data available Not applicable No data available	
	Decom	position temperature	:	No data available	e
		ity cosity, kinematic ive properties	:	No data available Not explosive	9
	-	ing properties	:	·	r mixture is not classified as oxidizing.
9.2	• • • • • •	nformation			
	Flamm	ability (liquids)		No data available	9
	Molecu	ular weight	:	No data available	9
	Particle	e size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1	Reactivity Not classified as a reactivity haza	arc	J.
10.2	Chemical stability Stable under normal conditions.		
10.3	Possibility of hazardous reacti	o	ns
	Hazardous reactions :		Can react with strong oxidizing agents.
10.4	Conditions to avoid		
	Conditions to avoid :		None known.

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10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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.

Components:

Amoxicillin Trihydrate:

Acute oral toxicity	:	LD50 (Rat): > 8,000 mg/kg
		LD50 (Mouse): > 10,000 mg/kg
		LD50 (Dog): > 3,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Components:

Amoxicillin Trihydrate:

Result	:	Sensitiser
Remarks		May cause sensitisation by inhalation.
		largely based on human evidence

Germ cell mutagenicity

Not classified based on available information.



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<u>Comp</u>	oonents:				
	kicillin Trihydrate: toxicity in vitro	: Test Type Result: ne	e: Bacterial reverse mutation assay (AMES) egative		
Geno	Genotoxicity in vivo :		Test Type: Micronucleus test Species: Mouse Result: negative		
			Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Result: negative		
	nogenicity assified based on ava	ilable informatio	n.		
-	oductive toxicity assified based on ava	ilable informatio	٦.		
Comp	oonents:				
	kicillin Trihydrate: is on fertility	Fertility: N Result: R Remarks: Test Type Species: Applicatic Fertility: L Result: R	Rat on Route: Oral NOAEL: 200 mg/kg body weight educed fertility Not classified due to inconclusive data. e: Fertility		
Effect	s on foetal develop-	Species: Applicatio Developn Result: N Test Type Species: Applicatio Developn Result: So based on Remarks:	on Route: Oral nental Toxicity: NOAEL: >= 1,000 mg/kg body weigh o embryo-foetal toxicity e: Development Mouse on Route: Oral nental Toxicity: LOAEL: 200 mg/kg body weight ome evidence of adverse effects on development, animal experiments. E: Not classified due to inconclusive data. e: Development		

SAFETY DATA SHEET According to REACH Regulation (EC) No 190

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			DAEL: 200 mg/kg body weight c survival, Reduced offspring e to inconclusive data.
	T - single exposure classified based on avai	able information.	
	T - repeated exposure classified based on avai	able information.	
Com	ponents:		
	oxicillin Trihydrate:		
Rem	arks	: Not classified due to inconc	clusive data.
Rep	eated dose toxicity		
Com	ponents:		
	oxicillin Trihydrate:		
Spec Appl	cies ication Route	: Rat : Oral	
Expo	osure time	: 6 Months	
Rem	arks	: No significant adverse effect	cis were reported
Spec Appl	cies ication Route	: Dog : Oral	
Expo	osure time	: 6 Months	
Rem	arks	: No significant adverse effect	cts were reported
Aspi	iration toxicity		
Not o	classified based on avai	able information.	
Expe	erience with human ex	osure	
Com	ponents:		
	oxicillin Trihydrate:		
Inge	stion	: Symptoms: Nausea, Vomiti flatulence, skin rash, Breath Remarks: May produce an	
SECTIO	N 12: Ecological info	rmation	
12.1 Toxi	city		
Com	ponents:		
	exicillin Trihydrate: city to fish	: LC50 (Carassius auratus (g	goldfish)): 0.035 mg/l



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			Exposure time: 9 Method: OECD T	6 h Test Guideline 203
Toxic plants	ity to algae/aquatic	:	NOEC (green alg Exposure time: 7	
			EC50 (Synechoc 0.0022 mg/l Exposure time: 9	occus leopoliensis (blue-green algae)): 6 h
			NOEC (blue-gree Exposure time: 7	en algae): 0.0057 mg/l 2 h
M-Fa icity)	ctor (Acute aquatic tox-	:	100	
M-Fa toxici	ctor (Chronic aquatic ty)	:	1	
12.2 Persi	istence and degradabi	lity		
Com	ponents:			
Amo	xicillin Trihydrate:			
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1	88 %
12.3 Bioa	ccumulative potential			
Com	ponents:			
	xicillin Trihydrate:			
Bioac	cumulation	:	Remarks: Bioacc	umulation is unlikely.
	ion coefficient: n- ol/water	:	log Pow: -0.124 Method: OECD T	est Guideline 107
	i lity in soil ata available			
12.5 Resu	Ilts of PBT and vPvB a	sse	ssment	
Prod	uct:			
	ssment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
Com	ponents:			
Amo	xicillin Trihydrate:			



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Asses	sment	:	(PBT) Product d	persistent, bioaccumulative, and toxic oes not contain substances which are very ry bioaccumulative (vPvB) at levels of 0.1%
12.6 Other	adverse effects			
<u>Produ</u> Endoc tial	<u>ct:</u> rine disrupting poten-	:	ered to have end	ixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).

SECTION 13: Disposal considerations

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	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082

14.2 UN proper shipping name

ADN :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amoxicillin Trihydrate)
ADR :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amoxicillin Trihydrate)
RID :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Amoxicillin Trihydrate)
IMDG :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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			(Amoxicillin Trihy	drate)	
ΙΑΤΑ	4	:	: Environmentally hazardous substance, liquid, n.o.s. (Amoxicillin Trihydrate)		
14.3 Tran	sport hazard class(es)				
			Class	Subsidiary risks	
ADN		:	9		
ADR		:	9		
RID		:	9		
IMDO	3	:	9		
ΙΑΤΑ		:	9		
14.4 Pack	king group				
Class Haza Labe ADR	ing group sification Code Ird Identification Number Is	:	III M6 90 9		
Class Haza Labe	sification Code rd Identification Number	:	M6 90 9 (-)		
Class	ing group sification Code ırd Identification Number Is	:	III M6 90 9		
Labe	ing group	:	III 9 F-A, S-F		
	(Cargo) ing instruction (cargo aft)	:	964		
Pack	ing instruction (LQ) ing group	::	Y964 III Miscellaneous		
Pack	(Passenger) ing instruction (passen- ircraft)	:	964		
Pack	ing instruction (LQ) ing group	: : :	Y964 III Miscellaneous		

14.5 Environmental hazards

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AD	N		
	rironmentally hazardous	: yes	
AD Env	R rironmentally hazardous	: yes	
RID Env	ironmentally hazardous	: yes	
IME Mar)G rine pollutant	: yes	
	A (Passenger)	: yes	
	A (Cargo)	: yes	

14.6 Special precautions for user

Remarks

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

: 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)	:	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 Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable



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GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation Control of Major Accident Hazards Regulations 2015 (COMAH)					
E1	·	ENVIRONMENT HAZARDS	Quantity 1Quantity 2TAL100 t200 t		

Other regulations:

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	5			
H334	: May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.			
H400	: Very toxic to aquatic life.			
H410	: Very toxic to aquatic life with long lasting effects.			
Full text of other abbrev	ations			
Aquatic Acute Aquatic Chronic Resp. Sens.	 Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Respiratory sensitisation 			

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 - Interna-



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tional 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	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Classification of the	Classification procedure:	
Resp. Sens. 1	H334	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	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 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.

GB / EN