

**Trade name:** NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 3.0.4, issued: 28.06.2023**Replaced version:** 3.0.3, issued: 22.06.2023**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****NISSORUN SC****UFI:****GC00-60K5-W003-GKG1****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Plant protection product

Acaricide

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Certis Belchim B.V. (EU)

Stadsplateau 16

3521 AZ Utrecht - Nederland

Telephone no. 0031 (0)30 200 1200

Fax no. 0031 (0)30 310 0241

e-mail [info@certisbelchim.com](mailto:info@certisbelchim.com)**Advice on Safety Data Sheet**[www.certisbelchim.com](http://www.certisbelchim.com)**Identification of the supplier****Address**

Certis Belchim B.V. - United Kingdom

Suite 5, 3 Riverside, Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. 0044 (0) 1223 652500

Fax no. 0044 (0)1223 891210

e-mail [info.uk@certisbelchim.com](mailto:info.uk@certisbelchim.com) - [www.certisbelchim.co.uk](http://www.certisbelchim.co.uk)**1.4 Emergency telephone number**

Carechem 24 EU: +44 1235 239670

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Eye Irrit. 2; H319

**Classification information**

Classification and labelling are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements**

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GHS07



GHS09

**Signal word**

Warning

**Hazard statement(s)**

H319 Causes serious eye irritation.  
 H411 Toxic to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.  
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statement(s)**

P264 Wash hands and face thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P391 Collect spillage.  
 P501 Dispose of contents/ container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

**UFI:**

GC00-60K5-W003-GKG1

**2.3 Other hazards**

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical characterization**

Hexythiazox 250 g/l (SC)

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	hexythiazox		
	78587-05-0 - 613-125-00-6 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10.00 - < 25.00 wt%
2	ethanediol		
	107-21-1 203-473-3 603-027-00-1 01-2119456816-28	Acute Tox. 4; H302 STOT RE 2; H373o	< 5.00 wt%

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3	<b>Sulfurous acid, monosodium salt, reaction products with (cresol, formaldehyde, nonophenol) polymer</b>			
	115535-44-9	Aquatic Chronic 3; H412	< 5.00	wt%
	-			
	-			
	-			
4	<b>sodium-diisopropylnaphthalenesulphonate</b>			
	1322-93-6	Acute Tox. 4; H302	< 2.50	wt%
	215-343-3	Eye Dam. 1; H318		
	-	Acute Tox. 4; H332		
	-	STOT SE 3; H335		
5	<b>1,2-benzisothiazol-3(2H)-one</b>			
	2634-33-5	Acute Tox. 4*; H302	< 0.05	wt%
	220-120-9	Aquatic Acute 1; H400		
	613-088-00-6	Eye Dam. 1; H318		
	-	Skin Irrit. 2; H315		
	-	Skin Sens. 1; H317		

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	-	M = 1	M = 1
5	-	Skin Sens. 1; H317: C >= 0.05%	-	-

No	Route, target organ, concrete effect
2	H373 oral; kidneys; -

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

No special measures necessary. In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

#### After skin contact

When in contact with the skin, clean with soap and water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

#### After ingestion

Call a doctor immediately and show label or packaging. Do not induce vomiting. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet

#### Unsuitable extinguishing media

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High power water jet

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Sulphur oxides (SxO<sub>y</sub>)

**5.3 Advice for firefighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing. Containers close to fire should be transferred to a safe place.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid breathing vapours.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge uncontrolled into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). When collected, handle material as described under the section heading "Disposal considerations". Clean contaminated surfaces thoroughly.

**6.4 Reference to other sections**

Information regarding waste disposal, see section 13. Information regarding personal protective measures, see section 8. Information regarding safe handling, see section 7.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

**General protective and hygiene measures**

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale vapours.

**Advice on protection against fire and explosion**

No special measures necessary.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

**Incompatible products**

Do not store together with food, beverages and animal feeds. Do not store together with oxidizing agents.

**7.3 Specific end use(s)****Industry solution**

Always read the label and product information before use.

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

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## 8.1 Control parameters

### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
	2000/39/EC		
	Ethylene glycol		
	WEL short-term (15 min reference period)	104	mg/m <sup>3</sup> 40 ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m <sup>3</sup> 20 ppm
	Skin resorption / sensibilisation	Skin	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Ethane-1,2-diol vapour		
	WEL short-term (15 min reference period)	104	mg/m <sup>3</sup> 40 ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m <sup>3</sup> 20 ppm
	Comments	Sk	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Ethane-1,2-diol particulate		
	WEL long-term (8-hr TWA reference period)	10	mg/m <sup>3</sup>
	Comments	Sk	

### DNEL, DMEL and PNEC values

#### DNEL values (worker)

No	Substance name	CAS / EC no
	Route of exposure	Value
1	ethanediol	107-21-1 203-473-3
	dermal	Long term (chronic) systemic 106 mg/kg/day
	inhalative	Long term (chronic) local 35 mg/m <sup>3</sup>

#### DNEL value (consumer)

No	Substance name	CAS / EC no
	Route of exposure	Value
1	ethanediol	107-21-1 203-473-3
	dermal	Long term (chronic) systemic 53 mg/kg/day
	inhalative	Long term (chronic) local 7 mg/m <sup>3</sup>

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses (EN 166)

#### Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

#### Other

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345)

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No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>			
liquid			
<b>Form</b>			
liquid			
<b>Colour</b>			
brown			
<b>Odour</b>			
uncharacteristic			
<b>pH value</b>			
Value	6.89		
Concentration	1	%	
<b>Boiling point / boiling range</b>			
Value	appr.	100	°C
<b>Melting point/freezing point</b>			
Value	appr. -10 - 0 °C		
Comments	This product froze after storage at -10°C for 3 days.		
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
No data available			
<b>Ignition temperature</b>			
No data available			
<b>Auto-ignition temperature</b>			
Value	460 °C		
<b>Oxidising properties</b>			
not oxidizing			
<b>Explosive properties</b>			
Product does not present an explosion hazard.			
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
Value	2.7	- 4	*10-6 Pa
Reference temperature	20 °C		
Reference substance	active ingredient		
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			

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Density			
Value	1.080 g/cm³		
Solubility in water			
Value	0.12	mg/l	
Reference temperature	25	°C	
Reference substance	active ingredient		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	hexythiazox	78587-05-0	-
log Pow		2.67	
Reference temperature		25	°C
Source		Manufacturer	
2	ethanediol	107-21-1	203-473-3
log Pow		-1.36	
Reference temperature		25	°C
Source		ECHA	
Kinematic viscosity			
Value	24	- 184	mPa*s
Reference temperature		20	°C
Type	dynamic		
Value	0.015	- 0.039	mm²/s
Reference temperature		40	°C
Type	kinematic		
Particle characteristics			
No data available			

**9.2 Other information**

<b>Other information</b>
No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

The product is stable under normal storage and handling conditions.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

High temperatures.

**10.5 Incompatible materials**

Oxidizing agents

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

<b>Acute oral toxicity</b>	
<b>No</b>	<b>Product Name</b>
1	NISSORUN SC

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LD50	>	5000	mg/kg
Species	rat		

**Acute dermal toxicity**

No				Product Name					
1				NISSORUN SC					
LD50				>		2000		mg/kg	
Species				rat					

**Acute inhalational toxicity**

No	Product Name
1	NISSORUN SC
LC50	> 5.3 mg/m³
Duration of exposure	4 h
State of aggregation	Dust/mist
Species	rat
Comments	highest checkable concentration

**Skin corrosion/irritation**

No	Product Name
1	NISSORUN SC
Evaluation	non-irritant

**Serious eye damage/irritation**

No	Product Name
1	NISSORUN SC
Evaluation	irritant

**Respiratory or skin sensitisation**

No	Product Name
1	NISSORUN SC
Route of exposure	Skin
Species	guinea pig
Source	Manufacturer
Evaluation	non-sensitizing

**Germ cell mutagenicity**

No	Substance name	CAS no.	EC no.
1	hexythiazox	78587-05-0	-
Method	Ames-Test		
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	ethanediol	107-21-1	203-473-3
Type of examination	Bacterial Reverse Mutation Test		
Species	Salmonella typhimurium: TA 1535, TA 1537, TA 98, TA 100; Escherichia coli WP2 uvrA		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Reproduction toxicity**

No	Substance name	CAS no.	EC no.
1	hexythiazox	78587-05-0	-
Species	rat		
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	ethanediol	107-21-1	203-473-3
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Carcinogenicity**

No	Substance name	CAS no.	EC no.
1	hexythiazox	78587-05-0	-



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Species	rat / mouse
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>2</b>	<b>ethanediol</b>
	<b>107-21-1</b>
	<b>203-473-3</b>
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ethanediol</b>	<b>107-21-1</b>	<b>203-473-3</b>
Route of exposure	oral		
NOAEL		150	mg/kg bw/d
Duration of exposure		12	months
Species	rat		
Target organ	kidneys		
Method	OECD 452		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Product Name		
<b>1</b>	<b>NISSORUN SC</b>		
LC50	>	100	mg/l
Duration of exposure		96	h
Species	Bluegill		

**Toxicity to fish (chronic)**

No data available

<b>Toxicity to Daphnia (acute)</b>			
No	Product Name		
<b>1</b>	<b>NISSORUN SC</b>		
EC50	>	100	mg/l
Duration of exposure		48	h
Species	Daphnia magna		

**Toxicity to Daphnia (chronic)**

No data available

<b>Toxicity to algae (acute)</b>			
No	Product Name		
<b>1</b>	<b>NISSORUN SC</b>		
ErC50	>	100	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		

**Toxicity to algae (chronic)**

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No	Product Name
1	NISSORUN SC
NOEC	100 mg/l
Duration of exposure	72 h
Species	Pseudokirchneriella subcapitata
Comments	The details of the toxic effect relate to the nominal concentration.

Bacteria toxicity
No data available

**12.2 Persistence and degradability**

Biodegradability			
No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
Type	DOC decrease		
Value	90	- 100	%
Duration		10	day(s)
Method	OECD 301 A		
Source	ECHA		
Evaluation	readily biodegradable		

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
1	hexythiazox	78587-05-0	-
Half-life		14	day(s)
Source	Manufacturer		

**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	hexythiazox	78587-05-0	-
BCF		1100	
Species	fish		
Source	Manufacturer		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	hexythiazox	78587-05-0	-
log Pow		2.67	
Reference temperature		25	°C
Source	Manufacturer		
2	ethanediol	107-21-1	203-473-3
log Pow		-1.36	
Reference temperature		25	°C
Source	ECHA		

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge product unmonitored into the environment.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	hexythiazox
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

### 14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	hexythiazox
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

### 14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	hexythiazox
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user

No data available.

### 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## SECTION 15: Regulatory information

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

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According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category: E2

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market**

Regulation (EU) No 547/2011 implementing Regulation (EC) No 1107/2009 as regards labelling requirements for plant protection products

**Annex III**

SP1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H3730	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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**Region:** GB

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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