

**Trade name:** SOLITAIRE**Product no.:** CE 152 C0054\_B UK-3**Current version :** 2.0.1, issued: 10.03.2022**Replaced version:** 2.0.0, issued: 25.11.2020**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**SOLITAIRE****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 for professional use. Agriculture.  
Herbicide**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**Certis Europe B.V. - United Kingdom  
Suite 5, 3 Riverside  
Granta Park - Great Abington  
Cambridgeshire CB21 6AD  
United Kingdom

Telephone no. +44 (0) 1223 894 261

Fax no. +44 (0)1223 891210

e-mail info@certiseurope.co.uk - www.certiseurope.co.uk

**Advice on Safety Data Sheet**

certis@certiseurope.co.uk

**1.4 Emergency telephone number**

Carechem 24 GB: +44 870 190 6777

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

Aquatic Chronic 1; H410

Carc. 2; H351

**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****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS08



GHS09

**Signal word**

Warning

**Hazardous component(s) to be indicated on label:**

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3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide

**Hazard statement(s)**

H351 Suspected of causing cancer.  
 H410 Very 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)**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P405 Store locked up.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**Supplemental label elements**

UFI: YF99-X0UA-Y00Y-NVAF

**2.3 Other hazards**

No data available.

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

Not applicable. The product is not a substance.

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

Propyzamide 400 g/l (SC)

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide</b>		
	23950-58-5 245-951-4 616-055-00-4 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Carc. 2; H351	>= 25.00 - < 50.00 wt%
2	<b>ethanediol</b>		
	107-21-1 203-473-3 603-027-00-1 01-2119456816-28	Acute Tox. 4; H302 STOT RE 2; H373o	>= 5.00 - < 10.00 wt%
3	<b>1,2-benzisothiazol-3(2H)-one</b>		
	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.10 wt%

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)
3	-	Skin Sens. 1; H317: C >= 0.05%	-	-

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

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information**

If medical advice is needed, have product container or label at hand.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**After skin contact**

Take off contaminated clothing.

Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**After ingestion**

Rinse mouth. Call a POISON CENTER or doctor/physician.

### 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**

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); chlorine compounds; Hydrocarbons; Nitrogen oxides (NO<sub>x</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.

## 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.

**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 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".

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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 foodstuffs and beverages. 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.

**Recommended storage temperature**

Value 25 °C

**Storage stability**

Value 2 year(s)

**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 foodstuffs.

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

Always read the label and product information before use.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
	<b>2000/39/EC</b>		
	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**

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No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	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	Exposure time	Effect	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>

**PNEC values**

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	ethanediol		107-21-1 203-473-3	
	water	fresh water	10	mg/L
	water	marine water	1	mg/L
	water	Aqua intermittent	10	mg/L
	water	fresh water sediment	37	mg/kg dry weight
	water	marine water sediment	3.7	mg/kg dry weight
	soil	-	1.53	mg/kg dry weight
	sewage treatment plant	-	199.5	mg/L

**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.

Respirator AP2

**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)

**Environmental exposure controls**

Any release into the environment must be avoided. Do not contaminate surface or ground water.

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

State of aggregation
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liquid			
<b>Form/Colour</b>			
liquid			
white			
<b>Odour</b>			
fruit-like			
<b>pH value</b>			
Value	8.1		
Concentration	1	% aqueous solution	
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
Value	>	95	°C
Source	Manufacturer		
<b>Ignition temperature</b>			
No data available			
<b>Auto-ignition temperature</b>			
Value	402	°C	
Source	Manufacturer		
<b>Oxidising properties</b>			
No likely or realistic possibility of this material being an oxidation hazard.			
<b>Explosive properties</b>			
No likely or realistic possibility of the material being an explosive 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>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	1.123	g/cm <sup>3</sup>	
Reference temperature	20	°C	
Method	EEC A3		
Source	Manufacturer		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide	23950-58-5	245-951-4

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log Pow Source	3 Manufacturer
<b>2</b>   <b>ethanediol</b>	<b>107-21-1</b> <b>203-473-3</b>
log Pow Reference temperature Source	-1.36 25                      °C ECHA

Viscosity	
Value	400 - 800 mPa*s
Type	dynamic
Source	Manufacturer
Value	288 - 10000 mPa*s
Reference temperature	20 °C
Type	kinematic
Source	Manufacturer
Value	240 - 7600 mPa*s
Reference temperature	40 °C
Type	kinematic
Source	Manufacturer

Particle characteristics
No data available

**9.2 Other information**

Other information
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**

None, if handled according to intended use.

**10.5 Incompatible materials**

None known.

**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**

Acute oral toxicity	
No	Product Name
<b>1</b>	<b>SOLITAIRE</b>
LD50	> 5000 mg/kg
Species	rat
Source	Manufacturer

Acute dermal toxicity	
No	Product Name
<b>1</b>	<b>SOLITAIRE</b>
LD50	> 2000 mg/kg
Species	rabbit
Source	Manufacturer

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<b>Acute inhalational toxicity</b>	
No	Product Name
1	SOLITAIRE
State of aggregation	Dust/mist
Comments	Based on the low vapour pressure of propyzamide and the lack of inhalation toxicity of the active substance, a study on the acute inhalation toxicity of the formulation can be waived.

<b>Skin corrosion/irritation</b>	
No	Product Name
1	SOLITAIRE
Source	Manufacturer
Evaluation	slightly irritant
Evaluation/classification	Based on available data, the classification criteria are not met.

<b>Serious eye damage/irritation</b>	
No	Product Name
1	SOLITAIRE
Source	Manufacturer
Evaluation	slightly irritant
Evaluation/classification	Based on available data, the classification criteria are not met.

<b>Respiratory or skin sensitisation</b>	
No	Product Name
1	SOLITAIRE
Route of exposure	Skin
Species	guinea pig
Source	Manufacturer
Evaluation	Non-sensitizing

<b>Germ cell mutagenicity</b>	
No	Product Name
1	SOLITAIRE
Comments	There is no evidence on mutagenic effects.

<b>Reproduction toxicity</b>			
No	Substance name	CAS no.	EC no.
1	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide	23950-58-5	245-951-4
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.		

<b>Carcinogenicity</b>	
No	Product Name
1	SOLITAIRE
Source	Manufacturer
Evaluation	Suspected of causing cancer.

<b>STOT - single exposure</b>	
No data available	

<b>STOT - repeated exposure</b>			
No	Substance name	CAS no.	EC no.
1	ethanediol	107-21-1	203-473-3
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		



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Evaluation/classification	Based on available data, the classification criteria are met.
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**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****Toxicity to fish (acute)**

No	Product Name			
1	SOLITAIRE			
LC50		>	85	mg/l
Duration of exposure			96	h
Species	Oncorhynchus mykiss			
Source	Manufacturer			

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No	Product Name			
1	SOLITAIRE			
EC50		>	65	mg/l
Duration of exposure			48	h
Species	Daphnia magna			
Source	Manufacturer			

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No	Product Name			
1	SOLITAIRE			
EC50			3.66	mg/l
Duration of exposure			72	h
Species	Pseudokirchneriella subcapitata			
Source	Manufacturer			

**Toxicity to algae (chronic)**

No	Product Name			
1	SOLITAIRE			
NOEC			0.1	mg/l
Duration of exposure			7	day(s)
Species	Lemna gibba			
Source	Manufacturer			

**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)

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Method	OECD 301 A
Source	ECHA
Evaluation	readily biodegradable

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
1	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide	23950-58-5	245-951-4
Type		Hydrolysis	
pH value		5-9	
Evaluation/classification		stable	

**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide	23950-58-5	245-951-4
BCF		49	
Species		Lepomis macrochirus	
Source		Manufacturer	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide	23950-58-5	245-951-4
log Pow		3	
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**

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide	23950-58-5	245-951-4
log Koc		2.924	
Source		Manufacturer	

**12.5 Results of PBT and vPvB assessment**

No data available.

**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.

**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**

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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	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide
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	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide
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	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide
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****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

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	No 3
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XVII.				
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
2	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide	23950-58-5	245-951-4	75
3	sodium hydroxide	1310-73-2	215-185-5	75
<b>Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances</b>				
This product is subject to Part I of Annex I, risk category:				E1
<b>Other regulations</b>				
Adhere to the national sanitary and occupational safety regulations when using this product.				

**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.

H373o May cause damage to organs through prolonged or repeated exposure if swallowed.

H400 Very toxic to aquatic life.

**Creation of the safety data sheet**

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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.

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