

Trade name: SOLITAIRE**Product no.:** CE 152 C0054_B UK-3**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****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 Belchim B.V. (EU)
Stadsplateau 16
3521 AZ Utrecht - NederlandTelephone no. 0031 (0)30 200 1200
Fax no. 0031 (0)30 310 0241
e-mail info@certisbelchim.com**Advice on Safety Data Sheet**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 KingdomTelephone no. 0044 (0) 1223 652500
Fax no. 0044 (0)1223 891210
e-mail info.uk@certisbelchim.com - 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 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**

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GHS08



GHS09

Signal word

Warning

Hazardous component(s) to be indicated on label:

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	3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide		
	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	ethanediol		
	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	1,2-benzisothiazol-3(2H)-one		
	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

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(*, **, ***, ****) 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 \geq 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

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 (CO₂); Carbon monoxide (CO); chlorine compounds; Hydrocarbons; Nitrogen oxides (NO_x)

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

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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".

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 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
	2000/39/EC		
	Ethylene glycol		
	WEL short-term (15 min reference period)	104	mg/m ³ 40 ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m ³ 20 ppm
	Skin resorption / sensitisation	Skin	
	List of approved workplace exposure limits (WELs) / EH40		
	Ethane-1,2-diol vapour		

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	WEL short-term (15 min reference period)	104	mg/m³	40	ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m³	20	ppm
	Comments	Sk			
List of approved workplace exposure limits (WELs) / EH40					
Ethane-1,2-diol particulate					
	WEL long-term (8-hr TWA reference period)	10	mg/m³		
	Comments	Sk			

DNEL, DMEL and PNEC values**DNEL values (worker)**

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 ³

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 ³

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
liquid
Form
liquid
Colour

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white			
Odour			
fruit-like			
pH value			
Value	8.1		
Concentration	1	% aqueous solution	
Boiling point / boiling range			
No data available			
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value	>	95	°C
Source	Manufacturer		
Ignition temperature			
No data available			
Auto-ignition temperature			
Value		402	°C
Source	Manufacturer		
Oxidising properties			
No likely or realistic possibility of this material being an oxidation hazard.			
Explosive properties			
No likely or realistic possibility of the material being an explosive hazard.			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value		1.123	g/cm³
Reference temperature		20	°C
Method	EEC A3		
Source	Manufacturer		
Solubility			
No data available			
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

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log Pow	-1.36	
Reference temperature	25	°C
Source	ECHA	

Kinematic 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		
1	SOLITAIRE		
LD50	>	5000	mg/kg
Species	rat		
Source	Manufacturer		
Acute dermal toxicity			
No	Product Name		
1	SOLITAIRE		
LD50	>	2000	mg/kg
Species	rabbit		
Source	Manufacturer		
Acute inhalational toxicity			
No	Product Name		

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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.

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

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

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

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

Reproduction toxicity			
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.		

Carcinogenicity	
No	Product Name
1	SOLITAIRE
Source	Manufacturer
Evaluation	Suspected of causing cancer.

STOT - single exposure	
No data available	

STOT - repeated exposure			
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		
Evaluation/classification	Based on available data, the classification criteria are met.		

Aspiration hazard	
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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)
Method	OECD 301 A		
Source	ECHA		
Evaluation	readily biodegradable		

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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**14.1 Transport ADR/RID/ADN**

Class 9
 Classification code M6

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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 XVII.	No 3
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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
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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

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:

E1

Other regulations

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.

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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Prod-ID 755731