

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

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

GHS07



GHS09

Signal word

Warning

Hazard statement(s)

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB

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)	
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.
P337+P313	If eye irritation persists: Get medical advice/attention.
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.

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**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, hexythiazox			
	78587-05-0 - 613-125-00-6 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10.00 - < 25.00	%-b.w.
2	ethanediol		pls. refer to footnote (1)	
	107-21-1 203-473-3 603-027-00-1 -	Acute Tox. 4; H302 STOT RE 2; H373o	< 5.00	%-b.w.
3	Sulfurous acid, monosodium salt, reaction products with (cresol, formaldehyde, nonophenol) polymer			
	115535-44-9 - - -	Aquatic Chronic 3; H412	< 5.00	%-b.w.
4	sodium-diisopropyl-naphthalenesulphonate			
	1322-93-6 215-343-3 - -	Acute Tox. 4; H302 Eye Dam. 1; H318 Acute Tox. 4; H332 STOT SE 3; H335	< 2.50	%-b.w.
5	1,2-benzisothiazol-3(2H)-one			
	2634-33-5 220-120-9 613-088-00-6 -	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.05	%-b.w.

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

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB

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

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
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 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

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)

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.

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB**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 chapter 13. Information regarding personal protective measures, see chapter 8. Information regarding safe handling, see chapter 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 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 / sensibilisation	Sk	
	List of approved workplace exposure limits (WELs) / EH40		
	Ethane-1,2-diol vapour		
	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
	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/m ³
	Comments	Sk	

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB**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)

Environmental exposure controls

No data available.

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

Form/Colour	
liquid	
brown	
Odour	
uncharacteristic	
Odour threshold	
No data available	
pH value	
Value	6.89
Concentration	1 %
Boiling point / boiling range	
Value	appr. 100 °C
Melting point / melting range	
Value	appr. -10 - 0 °C
Decomposition point / decomposition range	
No data available	
Flash point	
No data available	
Auto-ignition temperature	
Value	460 °C
Oxidising properties	
not oxidizing	
Explosive properties	
Product does not present an explosion hazard.	
Flammability (solid, gas)	

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB

No data available

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

Value	1,3	*10 ⁻⁶ Pa
Reference temperature	20	°C
Reference substance	active ingredient	

Vapour density

No data available

Evaporation rate

No data available

Relative density

No data available

Density

Value	1.080	g/cm ³
-------	-------	-------------------

Solubility in water

Value	0.12	mg/l
Reference temperature	25	°C
Reference substance	active ingredient	

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No	Substance name	CAS no.	EC no.
1	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, hexythiazox	78587-05-0	-
	log Pow	2.67	
	Reference temperature	25	°C
	Source	Manufacturer	

Viscosity

Value	24 - 184	mPa*s
Reference temperature	20	°C
Type	dynamic	
Value	0.015 - 0.039	mm ² /s
Reference temperature	40	°C
Type	kinematic	

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

High temperatures.

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB**10.5 Incompatible materials**

none, if handled according to order

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute oral toxicity			
No	Product Name		
1	NISSORUN SC		
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/m ³
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 data available	

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, hexythiazox	78587-05-0	-
Method	Ames-Test		
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, hexythiazox	78587-05-0	-
Species	rat		
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, hexythiazox	78587-05-0	-

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB

Species	rat / mouse
Source	Manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish (acute)**

No	Product Name			
1	NISSORUN SC			
LC50		>	100	mg/l
Duration of exposure			96	h
Species		Bluegill		

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No	Product Name			
1	NISSORUN SC			
EC50		>	100	mg/l
Duration of exposure			48	h
Species		Daphnia magna		

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No	Product Name			
1	NISSORUN SC			
ErC50		>	100	mg/l
Duration of exposure			72	h
Species		Pseudokirchneriella subcapitata		

Toxicity to algae (chronic)

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**Abiotic Degradation**

No	Substance name	CAS no.	EC no.
1	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, hexythiazox	78587-05-0	-
Half-life		14	day(s)
Source	Manufacturer		

12.3 Bioaccumulative potential**Bioconcentration factor (BCF)**

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB

No	Substance name	CAS no.	EC no.
1	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, hexythiazox	78587-05-0	-
BCF		1600	
Species		fish	
Source		Manufacturer	
Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, hexythiazox	78587-05-0	-
log Pow		2.67	
Reference temperature		25 °C	
Source		Manufacturer	

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 Other adverse effects

No data available.

12.7 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

Residuals 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	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, 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	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide,

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB

EmS	hexythiazox
Label	F-A, S-F
Marine pollutant mark	9
	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	trans-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-3-thiazolidine-carboxamide, 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 Transport in bulk according to Annex II of Marpol and the IBC Code

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, PREPARATIONS AND ARTICLES

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

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.

Trade name: NISSORUN SC**Product no.:** NI 019 C0062 UK**Current version :** 1.0.1, issued: 17.02.2020**Replaced version:** 1.0.0, issued: 29.01.2020**Region:** GB**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.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

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 chapter.

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.
H373o	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.

Department issuing safety data sheet

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

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.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 762789