

Version: 1.2

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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Product form	: Mixture	
Product name	: Latitude	
Product code	: CE 114 C0252	
Type of formulation	: Flowable concentrate for seed treatment (FS)	
Active Ingredient	: Silthiofam	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
1.2.1. Relevant identified uses		

Main use category	:	Plant protection product for professional use. Agriculture.
Use of the substance/mixture	:	Seed treatment - Fungicide.

#### 1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety d	lata sheet
CERTIS UK	
Suite 5, 3 Riverside	
Granta Park	
Great Abington	
Cambridgeshire CB21 6AD	
United Kingdom	
Tel: +44 (0)845 373 0305	
Fax: +44 (0)1223 891210	
Email: infocertisuk@certiseurope.com	
Website: www.certiseurope.co.uk	
1.4. Emergency telephone number	
Emergency number	: Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.
	For further advice for medical professionals:
	The National Poisons Information Service: +44 (0) 870 600 6266.
	For further advice for veterinary surgeons: +44 (0) 20 7635 9195
	Dublin - National Poisons Information Centre, Beaumont Hospital, Dublin 9:

# **SECTION 2: Hazards identification**

		Benzisothiazolin-3-one. May produce an allergic reaction.
EUH-s	atements	: EUH208 - Contains 3,5,7-Triaza-1-azoniaadamantane, 1-(3-chloroallyl)-, chloride and 1,2-
Precau	tionary statements (CLP)	: P234 - Keep only in original container.
Labell	ing according to Regulation (E	C) No. 1272/2008 [CLP]
2.2.	Label elements	
Not cla	ssified.	
Classi	fication according to Regulatio	n (EC) No. 1272/2008 [CLP]
2.1.	Classification of the substa	nce or mixture

Available from 8 am to 10 pm - 7 days: +353 (01) 809 2166

Available 24hrs: +353 (01) 809 2566



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EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

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#### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substance

#### Not applicable.

#### 3.2. Mixture

Name	Product identifier	% (w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silthiofam	(CAS No) 175217-20-6	12	Aquatic Chronic 3, H412
	(EC no) 605-752-9		
	(REACH-no) 02-2119558408-30-0000		

#### Full text of H-statements: see section 16.

4.1.       Description of first aid measures         First-aid measures general       : In the event of any complaints or symptoms, avoid further exposure.         First-aid measures after inhalation       : IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortal for breathing.         First-aid measures after skin contact       : IF ON SKIN: Wash with plenty of soap and water.         Remove contaminated clothing and shoes.       If skin irritation or rash occurs: Get medical advice/attention.         First-aid measures after eye contact       : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.         Consult an eye specialist.       Consult an eye specialist.         First-aid measures after ingestion       : IF SWALLOWED: Immediately call a POISON CENTER or doctor.
First-aid measures general       : In the event of any complaints or symptoms, avoid further exposure.         First-aid measures after inhalation       : IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortal for breathing.         If symptoms persist call a doctor.       If symptoms persist call a doctor.         First-aid measures after skin contact       : IF ON SKIN: Wash with plenty of soap and water.         Remove contaminated clothing and shoes.       If skin irritation or rash occurs: Get medical advice/attention.         First-aid measures after eye contact       : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.
for breathing.         If symptoms persist call a doctor.         First-aid measures after skin contact       : IF ON SKIN: Wash with plenty of soap and water.         Remove contaminated clothing and shoes.       If skin irritation or rash occurs: Get medical advice/attention.         First-aid measures after eye contact       : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.         Consult an eye specialist.
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Remove contaminated clothing and shoes.         If skin irritation or rash occurs: Get medical advice/attention.         First-aid measures after eye contact       : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing.         Consult an eye specialist.
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and easy to do. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Never give anything by mouth to an unconscious person.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries : No information available.
Risques : No information available.
4.3. Indication of any immediate medical attention and special treatment needed

The first aid procedure should be established with the assistance of the occupational physician. Treat symptomatically.



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# SECTION 5: Firefighting measures

Suitable extinguishing media	: Water spray
	Dry chemical powder
	Alcohol resistant foam
	Carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	: Jet of water.
5.2. Special hazards arising from	the substance or mixture
Fire hazard	: Combustion or thermal decomposition may generate toxic vapours: carbon monoxide (CO), sulphur oxides (SOx), nitrogen oxides (NOx), oxides of silica.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire.
	Fight fire from safe distance and protected location.
	Do not breathe fumes
	Cool closed containers exposed to fire with water spray
	If possible, take the containers out of dangerous zone.
	Contain fire-fighting water with dikes or absorbents to prevent migration and entry into sewers streams.
Protection during firefighting	: Wear suitable protective clothing, gloves, eye/face protection and respiratory protection
	Wear a self-contained breathing apparatus.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, protect	ctive equipment and emergency procedures
6.1. Personal precautions, protective equipment	ctive equipment and emergency procedures : Wear suitable protective clothing, gloves and eye or face protection.
Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection.
Protective equipment	<ul><li>Wear suitable protective clothing, gloves and eye or face protection.</li><li>Evacuate area.</li></ul>
Protective equipment	<ul> <li>Wear suitable protective clothing, gloves and eye or face protection.</li> <li>Evacuate area.</li> <li>Ensure adequate ventilation.</li> </ul>
Protective equipment	<ul> <li>Wear suitable protective clothing, gloves and eye or face protection.</li> <li>Evacuate area.</li> <li>Ensure adequate ventilation.</li> <li>Avoid direct contact with the substance.</li> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or</li> </ul>
Protective equipment Emergency procedures	<ul> <li>Wear suitable protective clothing, gloves and eye or face protection.</li> <li>Evacuate area.</li> <li>Ensure adequate ventilation.</li> <li>Avoid direct contact with the substance.</li> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> </ul>
Protective equipment Emergency procedures 6.2. Environmental precautions	<ul> <li>Wear suitable protective clothing, gloves and eye or face protection.</li> <li>Evacuate area.</li> <li>Ensure adequate ventilation.</li> <li>Avoid direct contact with the substance.</li> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> </ul>
Protective equipment         Emergency procedures         6.2.       Environmental precautions         Prevent entry to sewers and public water         Notify the authorities if product enters se         6.3.       Methods and material for control	<ul> <li>Wear suitable protective clothing, gloves and eye or face protection.</li> <li>Evacuate area.</li> <li>Ensure adequate ventilation.</li> <li>Avoid direct contact with the substance.</li> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> </ul> rs. evers or public waters. ntainment and cleaning up
Protective equipment Emergency procedures 6.2. Environmental precautions Prevent entry to sewers and public water Notify the authorities if product enters se	<ul> <li>Wear suitable protective clothing, gloves and eye or face protection.</li> <li>Evacuate area.</li> <li>Ensure adequate ventilation.</li> <li>Avoid direct contact with the substance.</li> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> </ul>
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Protective equipment         Emergency procedures         6.2.       Environmental precautions         Prevent entry to sewers and public water         Notify the authorities if product enters se         6.3.       Methods and material for control	<ul> <li>Wear suitable protective clothing, gloves and eye or face protection.</li> <li>Evacuate area.</li> <li>Ensure adequate ventilation.</li> <li>Avoid direct contact with the substance.</li> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> </ul> rs. evers or public waters. ntainment and cleaning up <ul> <li>Clean up any spills as soon as possible, using an absorbent material to collect it.</li> <li>Once absorbed collect spilled material with shovels, buckets and place in closed containers and spirite and spirite</li></ul>
Protective equipment         Emergency procedures         6.2.       Environmental precautions         Prevent entry to sewers and public water         Notify the authorities if product enters se         6.3.       Methods and material for control	<ul> <li>Wear suitable protective clothing, gloves and eye or face protection.</li> <li>Evacuate area.</li> <li>Ensure adequate ventilation.</li> <li>Avoid direct contact with the substance.</li> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> </ul> rs. rs. res. <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>



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# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling	
Precautions for safe handling	: Read label before use.
	Avoid contact with eyes, skin, nose and mouth.
	Wear suitable protective clothing, gloves and eye/face protection.
	Opened containers must be carrefully closed and kept upright to avoid leakage.
Hygiene measures	: Always wash your hands immediately after handling this product, and once again before leaving the workplace.
	Contaminated work clothing should not be allowed out of the workplace.
	Do no eat, drink or smoke when using this product.
	Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Minimum shelf life	: 2 year
Storage temperature	: 0 - 40 °C
<b>C</b> .	
Packaging material	: Compatible materials for storage steel, high-density polyetylene (HDPE), polypropylene (PP)
7.3. Specific end use(s)	Nahal
Fungicide for agricultural use. Refer to the	
SECTION 8: Exposure controls	
8.1. Control parameters	
No additional information available.	
8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinit of any potential exposure.
Hand protection	: Wear impervious gloves chemical resistant nitrile rubber (EN 374-3)
Eye protection	: Safety goggles or a face shield. (EN 166)
Skin and body protection	: Protective clothing with long sleeves waterproof and resistant to chemicals. Rubber boots. (EN 1383-3/EN ISO 20345)
Respiratory protection	: Wear appropriate respirator for dust / organic vapors.
Hygiene measures	: Do not eat, drink or smoke while handling the product.
	Clean gloves with soap and water before removing.
	Wash hands and face with soap and water before eating, drinking or smoking.
	Clean equipment, premises and work clothes regularly.
	Work clothing should remain on the work area and stored separately from street clothes.
Environmental exposure controls	: Discharge into the environment must be avoided.
	Do not contaminate surface and groundwater.
<b>SECTION 9: Physical and chem</b>	ical properties
9.1. Information on basic physica	and chemical properties
Physical state	: Liquid



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pH solution	: 10 g/l (20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable.
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: Does not flash
Auto-ignition temperature	: 425 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No significant volatility
Relative vapour density at 20 °C	: Not applicable
Relative density	: No data available
Density	: 1,058 g/cm <sup>3</sup> (20°C)
Solubility	: Water: Completely miscible.
Log Pow	: 3,48 (20°C) (active ingredient)
Log Kow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: 15,8 – 93,1 mPa.s (20°C)
Explosive properties	: No explosive properties.
Oxidising properties	: No data available
Explosive limits	: No data available
Specific gravity	: 1,05 (20°C/4°C)
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivit	y

# 10.1. Reactivity The product is stable at normal handling and storage conditions.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

Is not explosive and does not exhibit oxidant properties.

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours.

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects Acute toxicity : Not classified

Addie toxicity		
Latitude		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rat	> 5000 mg/kg	
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Skin corrosion/irritation	: Not classified
	Rabbit, 6 animals, OECD 404 test:
	Redness, mean EU score: 0,22
	Swelling, mean EU score: 0,00
	Days to heal: 3
Serious eye damage/irritation	: Not classified
	Rabbit, 6 animals, OECD 405 test:
	Conjunctival redness, mean EU score: 0,06
	Conjunctival swelling, mean EU score: 0,00
	Corneal opacity, mean EU score: 0,00
	Iris lesions, mean EU score: 0,00
	Days to heal: 2
Skin sensitisation	: Not classified
	Guinea pig, 3-induction Buehler test:
	Positive incidence: 0 %
	Negative.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
5	Active ingredient data:
	Rat, oral, 23 months:
	NOAEL toxicity: 100 mg/kg diet
	Target organs/systems: liver
	Other effects: decrease of food consumption, decrease of body weight gain, organ weig
	change, histopathologic effects, increased mortality, blood biochemistry effects
	NOEL tumour: >= 3.000 mg/kg diet
	Tumours: none
	Mouse, oral, 18 months:
	NOAEL toxicity: 1.000 mg/kg diet
	Target organs/systems: liver
	Other effects: weight loss, decrease of body weight gain, organ weight change,
	histopathologic effects, blood biochemistry effects
	NOEL tumour: 4.000 mg/kg diet
	Tumours: liver, (adenoma), (carcinoma)
	Tumours not relevant to man.
Reproductive toxicity	: Not classified
	Active ingredient data:
	Rat, oral, 2 generations:
	NOAEL toxicity: 400 mg/kg diet
	NOAEL reproduction: > 4.000 mg/kg diet
	Target organs/systems in parents: kidneys, liver
	Other effects in parents: weight loss, decrease of body weight gain, histopathologic
	effects, decrease of food consumption, organ weight change
	Other effects in pups: weight loss
	Effects on offspring only observed with maternal toxicity.
Specific target organ toxicity (single expos	ure) : Not classified



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Specific target organ toxicity (repeated	: Not classified
exposure)	Active ingredient data:
	Mouse, oral, 60 days:
	NOAEL toxicity: 1.000 mg/kg diet
	Target organs/systems: liver
	Other effects: decrease of body weight gain, organ weight change, haematological effect
	histopathologic effects, blood biochemistry effects
	Rat, oral, 3 months:
	NOAEL toxicity: 250 mg/kg diet
	Target organs/systems: liver
	Other effects: decrease of food consumption, weight loss, decrease of body weight gain,
	organ weight change, haematological effects, histopathologic effects, blood biochemistry
	effects
	Rat, dermal, 21 days:
	NOAEL toxicity: 1.000 mg/kg body weight/day
	Target organs/systems: none
	Other effects: none
Aspiration hazard	: Not classified
Developmental toxicity/teratogenicity	
	Active ingredient data:
	Rat, oral, 6 - 15 days of gestation:
	NOAEL toxicity: 50 mg/kg body weight/day
	NOAEL development: 500 mg/kg body weight/day
	Target organs/systems in mother animal: liver
	Other effects in mother animal: organ weight change
	Developmental effects: weight loss, post-implantation loss, delayed ossification
	Effects on offspring only observed with maternal toxicity.
	Rabbit, oral, 7 - 19 days of gestation:
	NOAEL toxicity: 60 mg/kg body weight/day
	NOAEL development: 60 mg/kg body weight/day
	NOALL development. Of highly body weight day
	Other effects in mother animal: none

Latitude		
LC50 Fishes (Onorhynchus mykiss)	115,3 mg/l (96h)	
EC50 Daphnia ( <i>Daphnia magna</i> )	141,2 mg/l (48h)	
EbC50 (Scenedesmus subspicatus)	207,5 mg/L	
NOEC (Scenedesmus subspicatus)	32 mg/L (72 hours)	
LD50 (Apis mellifera)	> 837 µg/bee (48h)	
LD50 (Apis mellifera)	> 871 µg/bee (48h)	
Silthiofam		
LC50 Bobwhite quail (Colinus virginianus)	>5,670 mg/kg (5 days)	
LC50 Mallard duck (Anas platyrhynchos)	>5,400 mg/kg (5days)	
24/04/2018	EN (English)	7/9



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Silthiofam	
LD50 Japanese quail (Coturnix japonica)	>2,250 mg/kg body weight
LC50 Earthworm (Eisenia foetida)	133 mg/kg dry soil (14 days)

#### 12.2. Persistence and degradability

Silthiofam	
Photochemical degradation	Half life: 16 days (water)
Biodegradation (modified Sturm test)	Degradation: 2% within 28 days
	Not readily biodegradable
Dissipation	Soil, 20°C
	Half life: 25 – 34 days
	Koc: 173 – 328 L/kg
	Water, aerobic, 20°C
	Half life: 5 - 52 days

Rapid depuration after end of exposure.

Silthiofam	
BCF(Oncorhynchus mykiss)	98

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

Not applicable

# 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information

: No supplementary information available.



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#### 14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

# 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

#### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

#### Full text of H- and EUH-statements:

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
H412	Harmful to aquatic life with long lasting effects
EUH208	Contains . May produce an allergic reaction
EUH401	To avoid risks to human health and the environment, comply with the instructions for use