

**Trade name:** INSYST**Product no.:** NI 021 C0052 UK**Current version :** 3.0.6, issued: 28.06.2023**Replaced version:** 3.0.5, issued: 22.06.2023**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**INSYST****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

Insecticide

**Uses advised against**

No data available.

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

Certis Belchim B.V. (EU)

Stadsplateau 16

3521 AZ Utrecht - Nederland

Telephone no. 0031 (0)30 200 1200

Fax no. 0031 (0)30 310 0241

e-mail info@certisbelchim.com

**Advice on Safety Data Sheet**

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**Address**

Certis Belchim B.V. - United Kingdom

Suite 5, 3 Riverside, Granta Park - Great Abington

Cambridgeshire CB21 6AD

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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)**

Acute Tox. 4; H302

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Repr. 2; H361d

**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)**

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GHS07



GHS08



GHS09

**Signal word**

Warning

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

acetamiprid

**Hazard statement(s)**

H302 Harmful if swallowed.  
 H361d Suspected of damaging the unborn child.  
 H410 Very toxic to aquatic life with long lasting effects.

**Hazard statements (EU)**

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

**Precautionary statement(s)**

P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell.  
 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 components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

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

Not applicable. The product is not a substance.

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

solid plant protection formulation; Acetamiprid 20% (SG)

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>acetamiprid</b>		
	135410-20-7 - 608-032-00-2 -	Repr. 2; H361d Acute Tox. 3; H301 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10.00 - < 25.00 wt%
2	<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>		
	68411-30-3 270-115-0 - 01-2119489428-22	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 3; H412	< 2.50 wt%

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	-	M = 10	M = 10

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2	-	Acute Tox. 4; H302: C >= 65%	-	-
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Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
1	140 mg/kg bodyweight		
2	1080 mg/kg bodyweight		

## 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

Carbon dioxide; Extinguishing powder; Water spray jet; Foam

#### 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; Nitrogen oxides (NO<sub>x</sub>); Toxic gases/vapours

### 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. Run-off water from fire fighting must not be discharged into drains or enter surface water. 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. Keep away from ignition sources. Avoid contact with skin, eyes and clothing. Do not inhale dust.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

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Do not discharge into the drains/surface waters/groundwater. Do not discharge uncontrolled into the subsoil/soil. Notify the authorities if product enters sewers or public waters.

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

Collect mechanically. When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

No data available.

**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. Do not inhale dust. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area. Do not inhale dust/fumes/aerosols.

**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.

**Requirements for storage rooms and vessels**

Store product in closed containers.

**Incompatible products**

Do not store together with foodstuffs. Keep away from water. Avoid direct contact with water, acids or base.

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

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>			<b>68411-30-3</b> <b>270-115-0</b>	
	dermal	Long term (chronic)	systemic	119	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	7.6	mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>			<b>68411-30-3</b> <b>270-115-0</b>	
	oral	Long term (chronic)	systemic	0.425	mg/kg/day
	dermal	Long term (chronic)	systemic	42.5	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	1.3	mg/m <sup>3</sup>

**PNEC values**

No	Substance name	CAS / EC no
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	ecological compartment	Type	Value	
1	<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>		<b>68411-30-3</b>	<b>270-115-0</b>
	water	fresh water	0.268	mg/L
	water	marine water	0.0268	mg/L
	water	Aqua intermittent	0.0167	mg/L
	water	fresh water sediment	8.1	mg/kg dry weight
	water	marine water sediment	6.8	mg/kg dry weight
	soil	-	35	mg/kg dry weight
	sewage treatment plant	-	3.43	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 dust, vapour 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). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. 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.

#### Other

Normal chemical work clothing.

#### Environmental exposure controls

Discharge into the environment must be avoided. Do not contaminate surface and groundwater.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>	
solid	
<b>Form</b>	
granules	
<b>Colour</b>	
blue	
<b>Odour</b>	
No data available	
<b>pH value</b>	
Value	8.6
Concentration	1 %
Method	CIPAC MT 75.2
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point/freezing point</b>	

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No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
No data available			
<b>Ignition temperature</b>			
No data available			
<b>Auto-ignition temperature</b>			
Value	>	402	°C
Method	EEC A16		
<b>Oxidising properties</b>			
not oxidizing			
<b>Explosive properties</b>			
Product does not present an explosion hazard.			
<b>Flammability</b>			
The product is not highly flammable.			
Method	EU Method A10		
<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>			
No data available			
<b>Packed bulk density</b>			
Value		0.8	g/ml
<b>Solubility in water</b>			
Comments	soluble		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	270-115-0
log Pow		1.4	
Reference temperature with reference to		23	°C
Method	pH 6,1 OECD 123		
Source	ECHA		
<b>Kinematic viscosity</b>			
No data available			
<b>Particle characteristics</b>			

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Nominal size range (CIPAC MT 58.3) Percent less than 150µm: 0.114% Percent less than 250µm: 6.9%
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**9.2 Other information****Other information**

Surface Tension 32 mN/m at 20°C

**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**

Hazardous polymerization will not occur under normal conditions.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

strong oxidizing agents

**10.6 Hazardous decomposition products**

Combustion or thermal decomposition may generate toxic vapours.

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

<b>Acute oral toxicity</b>			
No	Product Name		
1	INSYST		
LD50		1065	mg/kg
Species	rat		
Source	Manufacturer		

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

<b>Acute inhalational toxicity</b>			
No	Product Name		
1	INSYST		
LC50	>	3.5	mg/L
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		
Comments	highest checkable concentration		

<b>Skin corrosion/irritation</b>			
No	Product Name		
1	INSYST		
Species	rabbit		
Source	Manufacturer		
Evaluation	non-irritant		

<b>Serious eye damage/irritation</b>			
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No	Product Name
1	INSYST
Species	rabbit
Source	Manufacturer
Evaluation	non-irritant

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

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	acetamiprid	135410-20-7	-
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	270-115-0
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	acetamiprid	135410-20-7	-
Source	Committee for Risk Assessment"(RAC)		
Evaluation/classification	Repr.2; H361d Suspected of damaging the unborn child.		
2	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	270-115-0
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	acetamiprid	135410-20-7	-
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	270-115-0
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Aspiration hazard	
No data available	

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

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information**



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<b>Toxicity to fish (acute)</b>			
No	Product Name		
1	INSYST		
LC50	>	100	mg/l
Duration of exposure		96	h
Species	carp		
Source	Manufacturer		

<b>Toxicity to fish (chronic)</b>			
No data available			

<b>Toxicity to Daphnia (acute)</b>			
No	Product Name		
1	INSYST		
EC50	>	159	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	Manufacturer		
EC50		0.0981	mg/l
Duration of exposure		48	h
Species	Chironomus riparius		
Source	Manufacturer		

<b>Toxicity to Daphnia (chronic)</b>			
No data available			

<b>Toxicity to algae (acute)</b>			
No	Product Name		
1	INSYST		
ErC50	>	97.8	mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Source	Manufacturer		
NOEC		97.8	mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Source	Manufacturer		

<b>Toxicity to algae (chronic)</b>			
No data available			

<b>Bacteria toxicity</b>			
No data available			

**12.2 Persistence and degradability**

<b>Biodegradability</b>			
No	Substance name	CAS no.	EC no.
1	acetamiprid	135410-20-7	-
	Source	Manufacturer	
	Evaluation	not readily biodegradable	
2	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	270-115-0
	Value	85	%
	Duration	29	day(s)
	Method	OECD 301 B	
	Source	ECHA	
	Evaluation	readily biodegradable	

**12.3 Bioaccumulative potential**

<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.

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<b>1</b>	<b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b>	<b>68411-30-3</b>	<b>270-115-0</b>
log Pow		1.4	
Reference temperature with reference to		23	°C
Method	pH 6,1 OECD 123		
Source	ECHA		

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**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	M7
Packing group	III
Hazard identification no.	90
UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name	acetamiprid
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	9
Packing group	III
UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name	acetamiprid
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	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.

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Technical name	acetamiprid
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**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.

**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
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**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).
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**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)**

H301	Toxic if swallowed.
H315	Causes skin irritation.

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H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

**Creation of the safety data sheet**

UMCO GmbH

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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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