

Trade name: INSYST**Product no.:** NI 021 C1019 IRE**Current version :** 3.0.1, issued: 10.01.2024**Replaced version:** 3.0.0, issued: 18.10.2023**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

INSYST

UFI:

5HNP-DXYU-UJ6J-62KH

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

United Kingdom

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e-mail info.uk@certisbelchim.com - www.certisbelchim.co.uk

1.4 Emergency telephone number

For further advice for medical professionals:

Dublin – National Poisons Information Centre, Beaumont Hospital, Dublin 9:

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

Available 24hrs: +353(01)809 2566

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)****Hazard pictograms**

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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 CENTER/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.	
UFI:		
5HNP-DXYU-UJ6J-62KH		

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% (SP)

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	acetamiprid			
	135410-20-7 - 608-032-00-2 -	Acute Tox. 3; H301 Repr. 2; H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10,00 - < 25,00	wt%
2	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			
	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
2	-	Acute Tox. 4; H302: C >= 65%	-	-

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

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

6.2 Environmental precautions

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.

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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	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			68411-30-3 270-115-0	
	dermal	Long term (chronic)	systemic	119	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	7,6	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			68411-30-3 270-115-0	
	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 ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts		68411-30-3 270-115-0	
	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

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State of aggregation			
solid			
Form			
granules			
Colour			
blue			
Odour			
No data available			
pH value			
Value		8,6	
Concentration		1	%
Method	CIPAC MT 75.2		
Boiling point / boiling range			
No data available			
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
No data available			
Ignition temperature			
No data available			
Auto-ignition temperature			
Value	>	402	°C
Method	EEC A16		
Oxidising properties			
not oxidizing			
Explosive properties			
Product does not present an explosion hazard.			
Flammability			
The product is not highly flammable.			
Method	EU Method A10		
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			
No data available			
Packed bulk density			
Value		0,8	g/ml
Solubility in water			
Comments	soluble		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	acetamiprid	135410-20-7	-
log Pow			0,80
Source	manufacturer		

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2	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	270-115-0
log Pow		1,4	
Reference temperature with reference to Method Source	pH 6,1 OECD 123 ECHA	23	°C

Kinematic viscosity
No data available

Particle characteristics	
Comments	Nominal size range (CIPAC MT 58.3) Percent less than 150µm: 0.114% Percent less than 250µm: 6.9%

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**

Acute oral toxicity			
No	Product Name		
1	INSYST		
LD50		1065	mg/kg
Species	rat		
Source	manufacturer		

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

Acute inhalational toxicity			
No	Product Name		
1	INSYST		
LC50	>	3,5	mg/L
State of aggregation	Dust/mist		
Species	rat		
Source	manufacturer		
Comments	highest checkable concentration		

Skin corrosion/irritation			
No	Product Name		
1	INSYST		
Species	rabbit		
Source	manufacturer		
Evaluation	non-irritant		

Serious eye damage/irritation			
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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	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	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 data available			
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**12.1 Toxicity**

Toxicity to fish (acute)			
No	Product Name		
1	INSYST		
LC50	>	100	mg/l
Duration of exposure		96	h
Species	carp		
Source	manufacturer		
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
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		

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Toxicity to Daphnia (chronic)	
No data available	

Toxicity to algae (acute)	
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

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	acetamiprid	135410-20-7	-
Evaluation/classification		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

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	acetamiprid	135410-20-7	-
Evaluation/classification		Not bioaccumulative	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	acetamiprid	135410-20-7	-
log Pow		0,80	
Source	manufacturer		
2	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3	270-115-0
log Pow		1,4	
Reference temperature		23	°C
with reference to	pH 6,1		
Method	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

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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.
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

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	acetamiprid	135410-20-7	-	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

Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market

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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.

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.
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

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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.

Alterations/supplements:

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

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