

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name : INSYST  
Product code : NI 021 1019  
Type of formulation : Water soluble powder (SP)  
Active Ingredient : Acetamiprid

**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 : Insecticide.

**1.2.2. Uses advised against**

No additional information available.

**1.3. Details of the supplier of the safety data sheet**Supplier:

Nisso Chemical Europe GmbH  
Berliner Allee 42  
40212 Düsseldorf, Allemagne  
T.: +49(0) 211 130 66 86 0  
F.: +49(0) 211 328231  
[sds@nisso-chem.de](mailto:sds@nisso-chem.de)

Distributor:

CERTIS UK  
1 Riverside  
Granta Park  
Great Abington  
Cambridgeshire CB21 6AD  
United Kingdom  
Tel: +44 (0)845 373 0305  
Fax: +44 (0)1223 891210  
Email: [certis@certiseurope.co.uk](mailto:certis@certiseurope.co.uk)  
Website: [www.certiseurope.co.uk](http://www.certiseurope.co.uk)

**1.4. Emergency telephone number**

Emergency number : Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.  
For advice on medical emergencies, fires, spillages or chemical hazards only –phone: 0870 190 6777.  
For further advice for medical professionals - The National Poisons Information Service:  
Tel: 0870 600 6266 (UK only) or Dublin Tel: 0035 3 137 99 64/379966.  
For further advice for veterinary surgeons: 020 7635 9195.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16.

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22

R52/53

Full text of R-phrases: see section 16.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Hazardous ingredients

: Acetamiprid.

Benzenesulfonic acid, mono-C10-13-alkyl derivs., sodium salts.

Hazard statements (CLP)

: H302 - Harmful if swallowed.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: 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 suitable disposal site in accordance with local and national regulations.

EUH phrases

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

#### Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols



Xn - Harmful

R-phrases

: R22 - Harmful if swallowed.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

: S2 - Keep out of the reach of children.

S13 - Keep away from food, drink and animal feedingstuffs.

S22 - Do not breathe dust.

S36/37 - Wear suitable protective clothing and gloves.

S35 - This material and its container must be disposed of in a safe way.

S46 - If swallowed, seek medical advice immediately and show this container or label.

S57 - Use appropriate containment to avoid environmental contamination.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable.

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Acetamidiprid	(CAS No) 135410-20-7 (EC index no) 608-032-00-2	20	Xn; R22 R52/53
Benzenesulfonic acid, mono-C10-13-alkyl derivs., sodium salts	(CAS No) 90194-45-9 (EC no) 290-656-6	2,4	Xn; R22 Xi; R41 Xi; R38

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetamidiprid	(CAS No) 135410-20-7 (EC index no) 608-032-00-2	20	Acute Tox. 4 (Oral), H302 Aquatic Chronic 3, H412
Benzenesulfonic acid, mono-C10-13-alkyl derivs., sodium salts	(CAS No) 90194-45-9 (EC no) 290-656-6	2,4	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

### 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 comfortable 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 present 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.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbons.

### 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 or 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 measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection.

Emergency procedures : Evacuate area.  
Ensure adequate ventilation.  
Avoid direct contact with the substance.  
Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.  
Notify the authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Obey Federal, State and local regulations for Health & Safety and environmental protection when accidental spills is treated.

Methods for cleaning up : Small quantities of liquid spill: mix with soap solution Wash down with an excess of water  
Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

### 6.4. Reference to other sections

Reference to other sections (8, 13).

**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.  
 Do not breathe dust.  
 Wear suitable protective clothing, gloves and eye/face protection.  
 Opened containers must be carefully 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 not eat, drink or smoke when using this product.  
 Wash contaminated clothing before reuse.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures : Provide adequate ventilation.

Storage conditions : Prevent unauthorised access.  
 Keep locked up and out of the reach of children.  
 Keep in original containers, tightly closed.  
 Keep away from food, drink and animal feedingstuffs.  
 Protect against frost.  
 Store in a cool, dry, well-ventilated place.  
 Keep away from heat and direct sunlight.  
 Avoid contact with : Water. Acids. Bases.

**7.3. Specific end use(s)**

Insecticide for agricultural use. Refer to the label.

**SECTION 8: Exposure controls/personal protection**

**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 vicinity of any potential exposure.

Personal protective equipment : Protective clothing. Protective goggles. Gloves. Dust/aerosol mask.



Hand protection : Wear impervious gloves resistant to chemical. Nitrile rubber.

Eye protection : Safety goggles or a face shield.

Skin and body protection : Protective clothing with long sleeves waterproof and resistant to chemicals. Rubber boots.

Respiratory protection : Wear appropriate respirator for dust / organic vapors.

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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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Opaque Granular solid.
Colour	: Blue.
Odour	: Weak.
Odour threshold	: No data available
pH	: 8.4 - 8.6 (1%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable.
Freezing point	: Not applicable.
Boiling point	: Not applicable.
Flash point	: Not applicable.
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: This product doesn't have auto flammability in normal condition.
Vapour pressure	: Not applicable.
Relative vapour density at 20 °C	: Not applicable.
Relative density	: Pour density :0.673g/mL , Tap density :0.739g/mL
Solubility	: Soluble.
Log Pow	: 0.79
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: It is not explosive.
Oxidising properties	: No oxidising properties.

Explosive limits : No data available

## 9.2. Other information

Other properties : Surface tension : 32mN/m => 20 °C

## SECTION 10: Stability and reactivity

### 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

High temperature.

### 10.5. Incompatible materials

Strong oxidizing agents.

Strong acids.

strong bases.

### 10.6. Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbons.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

INSYST	
LD50 oral rat	1065 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat	> 3.5 mg/l/4h

Skin corrosion/irritation : Not classified (Non irritant to rabbit skin)

Eye irritation : Not irritant to rabbit eyes (20% Soluble Powder was used for this test)

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

#### Acetamidrid (135410-20-7)

Ames test : Negative

Chromosomal aberration test : Positive

Micronucleus test (mouse) : Negative

UDS test : Negative

Carcinogenicity : Not classified

#### Acetamidrid (135410-20-7)

Carcinogenicity test : Negative (rat and mouse)

Acetamidrid (135410-20-7)	
NOAEL (chronic, oral, rat/male, 2 years)	7,1 mg/kg bodyweight

Acetamiprid (135410-20-7)	
NOAEL (chronic, oral, rat/female, 2 years)	8,8 mg/kg bodyweight
NOAEL (chronic, oral, mouse/male, 2 years)	20,3 mg/kg bodyweight
NOAEL (chronic, oral, mouse/female, 2 years)	25,2 mg/kg bodyweight

Reproductive toxicity	: Not classified Negative results on rats.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Other information	: Tetratogenicity: Negative (rat); Negative (rabbit)

## SECTION 12: Ecological information

### 12.1. Toxicity

INSYST	
LC50 Fishes (carp)	> 100 mg/l (96hr)
EC50 Daphnia	> 159 mg/l (48hr)
ErC50 Algae	> 97.8 mg/l (72hr)

### 12.2. Persistence and degradability

Acetamiprid (135410-20-7)	
Persistence and degradability	Not readily biodegradable.

### 12.3. Bioaccumulative potential

Acetamiprid (135410-20-7)	
Bioaccumulative potential	not bioaccumulable.

### 12.4. Mobility in soil

Acetamiprid (135410-20-7)	
Ecology - soil	Not applicable.

### 12.5. Results of PBT and vPvB assessment

Not applicable.

### 12.6. Other adverse effects

Other adverse effects : Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Apply triple washing procedure of the empty container and place the rinse water in the tank or container where the mixture is prepared. Handle empty containers and waste as established by the competent authorities.



## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No. : 3077

UN-No.(IATA) : 3077

### 14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMETALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Acetamidrid)

Transport document description : UN 3077 ENVIRONMETALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Acetamidrid), 9, III, (E)

### 14.3. Transport hazard class(es)

Class (UN) : 9

Class (IATA) : 9 - Miscellaneous dangerous goods.

Hazard labels (UN) : 9



### 14.4. Packing group

Packing group (UN) : III

### 14.5. Environmental hazards

Dangerous for the environment :

Marine pollutant



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90

Classification code (UN) : M7

Orange plates :



Special provision (ADR) : 274, 335, 601

Transport category (ADR) : 3

Tunnel restriction code : E

Limited quantities (ADR) : 5kg

Excepted quantities (ADR) : E1

EAC code : 2Z

#### 14.6.2. Transport by sea

EmS-No. (1) : F-A,S-F

#### 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

No REACH Annex XVII restrictions

Contains no REACH candidate substance

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Indication of changes:

Change date	Previous Version	Section	Changed Item	Change	Comments
21/10/2014	2.0	1.1	Composition code 1017	modified	According to composition code 2014
			Type of formulation SG	modified	
		11	Thiophanate mention	removed	

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
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
R22	Harmful if swallowed
R38	Irritating to skin
R41	Risk of serious damage to eyes
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Xi	Irritant
Xn	Harmful

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*