



according to 29 CFR 1910.1200(g)

Imidacloprid

Revision date: 07/04/2025 Product code: N-12206 Page 1 of 10

1. Identification

on analytichem company

Product identifier

Imidacloprid

Substance name: imidacloprid (ISO); (E)-1-

(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine; (2E)-1-

[(6-chloropyridin-3-yl) methyl]-N-nitroimidazolidin-2-imine

CAS No: 138261-41-3

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

Uses advised against

Do not use for private purposes (household).

Details of the supplier of the safety data sheet

Company name: Chem Service, Inc.

an analytichem company

Street: 660 Tower Lane

Place: USA-PA 19381-0599 West Chester, United States

Telephone: 800-452-9994 / 610-692-3026

E-mail: info@chemservice.com
Contact person: SDS service department
E-mail: SDS@analytichem.com
Internet: www.chemservice.com
Responsible Department: SDS service department

Emergency phone number: Chemtrec US 800-424-9300 / Chemtrec outside US +1 703-527-3887

Further Information

No data available

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Acute toxicity: Acute Tox. 1 (inhalation)
Acute toxicity: Acute Tox. 4 (oral)

Hazardous to the aquatic environment: Aquatic Acute 1 Hazardous to the aquatic environment: Aquatic Chronic 1

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:





Hazard statements

Harmful if swallowed Fatal if inhaled

Very toxic to aquatic life with long lasting effects



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Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Wear respiratory protection.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Immediately call a poison center/doctor.

Collect spillage.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container to an appropriate recycling or disposal facility.

Hazards not otherwise classified

No data available

3. Composition/information on ingredients

Substances

Relevant ingredients

CAS No	Components	Quantity
138261-41-3	imidacloprid (ISO); (E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine; (2E)-1-	100 %
	[(6-chloropyridin-3-yl) methyl]-N-nitroimidazolidin-2-imine	

Further Information

No data available

4. First-aid measures

Description of first aid measures

General information

First aider: Pay attention to self-protection!

Call a physician immediately.

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Provide adequate ventilation.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.



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Most important symptoms and effects, both acute and delayed

Headache, Spasms, Cough, Dyspnoea, Vomiting, Gastrointestinal complaints, Causes skin and eye irritation.

Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Hazardous combustion products

Gases/vapors, toxic Gases/vapors, harmful

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Wear full chemical protective clothing.

In case of fire and/or explosion do not breathe fumes.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe dust.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapors/spray.

For emergency responders

Precautionary statements For emergency responders: Personal protection equipment (PPE): see section 8

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Take up dust-free and set down dust-free.

Collect in closed and suitable containers for disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.



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Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear breathing apparatus if exposed to vapors/dusts/aerosols.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid exposure - obtain special instructions before use.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe dust/fume/gas/mist/vapors/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of the protective agents should be clarified with their suppliers.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

National regulations

Further information on storage conditions

Keep cool. Protect from sunlight.

Protect against: Humidity

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m³	Category	Origin
138261-41-3	Imidacloprid (inhalable fraction)	-	0.005	TWA (8 h)	





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Additional advice on limit values

Observe in addition any national regulations!

Exposure controls

on analytichem company

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe dust/fume/gas/mist/vapors/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

goggles

Face protection umbrella

Hand protection

Tested protective gloves must be worn

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Wash hands before breaks and after work.

Respiratory protection

Wear breathing apparatus if exposed to vapors/dusts/aerosols.

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: solid Color: whitish

Odor: No data available Odour threshold: No data available

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

No data available Flammability: Lower explosion limits: No data available Upper explosion limits: No data available No data available Flash point: No data available Auto-ignition temperature: Decomposition temperature: No data available pH-Value: No data available Viscosity / kinematic: No data available





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Water solubility: No data available

Solubility in other solvents

No data available

Dissolution rate:

Partition coefficient n-octanol/water:

Dispersion stability:

Vapor pressure:

No data available

No data available

No data available

No data available

(at 25 °C)

Vapor pressure:

Density:

Relative density:

No data available

Bulk density:

No data available

Relative vapour density:

No data available

Relative vapour density:

No data available

Particle characteristics:

No data available

Other information

Information with regard to physical hazard classes

Explosive properties

No data available

Sustained combustibility:

No data available

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

Solvent separation test:

No data available
Solvent content:

No data available
Solid content:

No data available
Sublimation point:

No data available
Softening point:

No data available
Pour point:

No data available

No data available:

Viscosity / dynamic:

Flow time:

No data available

No data available

Further Information

No data available

10. Stability and reactivity

Reactivity

The product is stable under storage at normal ambient temperatures.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Oxidizing agent, strong





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Hazardous decomposition products

SECTION 5: Fire fighting measures

Further information

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No data available

11. Toxicological information

Route(s) of Entry

No data available

Information on toxicological effects

Acute toxicity

Fatal if inhaled Harmful if swallowed

CAS No	Components									
	Exposure route	Dose	Species	Source	Method					
138261-41-3	imidacloprid (ISO); (E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine; (2E)-1- [(6-chloropyridin-3-yl) methyl]-N-nitroimidazolidin-2-imine									
	oral	ATE 131 mg/kg								
	inhalation vapour	ATE 0,05 mg/l								
	inhalation dust/mist	ATE 0,005 mg/l								

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): Not listed.
Carcinogenicity (IARC): Not listed.
Carcinogenicity (NTP): Not listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

Information on other hazards

Endocrine disrupting properties

No data available



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Other information

Spasms, Cough, Dyspnoea, Vomiting, Gastrointestinal complaints

Further information

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No data available

12. Ecological information

Ecotoxicity

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains.

Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of contents/container to hazardous or special waste collection point.

Do not allow to enter into surface water or drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number: UN 3077

<u>Proper shipping name:</u> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(imidacloprid (ISO); (E)-1-

 $(6\hbox{-chloro-3-pyridylmethyl})\hbox{-N-nitroimidazolidin-2-ylideneamine}; (2E)\hbox{-1-}$

[(6-chloropyridin-3-yl) methyl]-N-nitroimidazolidin-2-imine)

Transport hazard class(es):

Packing group:
Hazard label:

9
9

Special Provisions: 8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33

Limited quantity: No limit

Marine transport (IMDG)

UN 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(imidacloprid (ISO); (E)-1-

(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine; (2E)-1-

[(6-chloropyridin-3-yl) methyl]-N-nitroimidazolidin-2-imine)





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Transport hazard class(es):

Packing group:

Hazard label:

9

Special Provisions: 274 335 966 967 969

Limited quantity: 5 kg
Excepted quantity: E1
EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(imidacloprid (ISO); (E)-1-

(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine; (2E)-1-

[(6-chloropyridin-3-yl) methyl]-N-nitroimidazolidin-2-imine)

Transport hazard class(es):9Packing group:IIIHazard label:9

Special Provisions: A97 A158 A179 A197 A215

Limited quantity Passenger: 30 kg G
Passenger LQ: Y956
Excepted quantity: E1

IATA-packing instructions - Passenger:956IATA-max. quantity - Passenger:400 kgIATA-packing instructions - Cargo:956IATA-max. quantity - Cargo:400 kg

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: imidacloprid (ISO); (E)-1-

(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine; (2E)-1-

[(6-chloropyridin-3-yl) methyl]-N-nitroimidazolidin-2-imine

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 311/312 Hazards:

imidacloprid (ISO); (E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine; (2E)-1-[(6-chloropyridin-3-yl) methyl]-N-nitroimidazolidin-2-imine (138261-41-3): Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

 Revision date:
 07/04/2025

 Revision No:
 1.00





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Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.