

SAFETY DATA SHEET

PICUS™



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : PICUS™

Manufacturer or supplier's details

Company : FMC Agro Kazakhstan LLP

Address : str. Timiryazeva, 26/29
050040 Almaty
Kazakhstan

Telephone : 1 215 / 299-6000 (Corporate office in USA)

Emergency telephone : +44 20 3885 0382 (CHEMTREC's European Regional Toll-Free Number)
1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical Emergency Number : All other countries: +1 651 / 632-6793 (Collect)

E-mail address : SDS-Info@fmc.com

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 5

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

GHS-Labeling

Hazard pictograms :



Signal Word : WARNING

SAFETY DATA SHEET



PICUS™

Version 1.0 Revision Date: 21.06.2024 SDS Number: 50000343 Date of last issue: -
Date of first issue: 21.06.2024

Hazard Statements : H302 + H332 Harmful if swallowed or if inhaled.
H313 May be harmful in contact with skin.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
Response:
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P391 Collect spillage.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Components

Chemical name	CAS-No.	Classification	MAC value mg/m ³ / TSEL value	Concentration (% w/w)
imidacloprid (ISO)	138261-41-3	Acute Tox.4; H302 Acute Tox.5; H333 Aquatic Acute1; H400 Aquatic Chronic1; H410	No data available	>= 30 - < 50
urea	57-13-6		MPC-STEL: 10 mg/m ³ Class 3 - Moder- ately dangerous Data Source: KZ OEL MPC-STEL: 10 mg/m ³ Class 3 - Moder- ately dangerous Data Source: RU OEL	>= 1 - < 10

For explanation of abbreviations see section 16.

SAFETY DATA SHEET

PICUS™



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

4. FIRST AID MEASURES

- | | |
|---|---|
| General advice | : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended. |
| If inhaled | : Move to fresh air.
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
If unconscious, place in recovery position and seek medical advice. |
| In case of skin contact | : If on clothes, remove clothes.
If on skin, rinse well with water.
Wash off with soap and plenty of water.
Get medical attention if irritation develops and persists. |
| In case of eye contact | : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Do not induce vomiting without medical advice. |
| Most important symptoms and effects, both acute and delayed | : Signs of exposure are uncoordinated gait, tremors, and reduced activity. Very high oral exposures may lead to lethargy, vomiting, diarrhea, salivation, muscle weakness and ataxia. Harmful if swallowed or if inhaled.
May be harmful in contact with skin. |
| Protection of first-aiders | : Avoid inhalation, ingestion and contact with skin and eyes. |
| Notes to physician | : Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

Flammable properties

- | | |
|--|---------------------|
| Flash point | : > 100 °C |
| Ignition temperature | : No data available |
| Upper explosion limit / Upper flammability limit | : No data available |
| Lower explosion limit / Lower | : No data available |

SAFETY DATA SHEET



PICUS™

Version 1.0	Revision Date: 21.06.2024	SDS Number: 50000343	Date of last issue: - Date of first issue: 21.06.2024
----------------	------------------------------	-------------------------	--

flammability limit

Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.
Halogenated compounds
Carbon oxides
Nitrogen oxides (NO_x)
Ammonia
Hydrogen chloride
Hydrogen cyanide
Chlorine compounds

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
Use a water spray to cool fully closed containers.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Evacuate personnel to safe areas.
Do not touch or walk through the spilled material.
If it can be safely done, stop the leak.
Keep people away from and upwind of spill/leak.
Ensure adequate ventilation.
Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.
Collect as much of the spill as possible with a suitable absor-

SAFETY DATA SHEET



PICUS™

Version 1.0	Revision Date: 21.06.2024	SDS Number: 50000343	Date of last issue: - Date of first issue: 21.06.2024
----------------	------------------------------	-------------------------	--

bent material.
Pick up and transfer to properly labeled containers.
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : The product is stable under normal conditions of warehouse storage.
Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.
Protect from extreme heat or cold. Storage temperature between -10 and 40°C.
- Further information on storage stability : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
urea	57-13-6	MPC-STEL (aerosol)	10 mg/m3	RU OEL
Further information: Class 3 - Moderately dangerous				
		MPC-STEL (aerosol)	10 mg/m3	KZ OEL
Further information: Class 3 - Moderately dangerous				

SAFETY DATA SHEET



PICUS™

Version 1.0	Revision Date: 21.06.2024	SDS Number: 50000343	Date of last issue: - Date of first issue: 21.06.2024
----------------	------------------------------	-------------------------	--

Personal protective equipment

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|-----------------------------|--|
| Respiratory protection | : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. |
| Hand protection
Material | : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. |
| Remarks | : The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Eye protection | : Eye wash bottle with pure water
Tightly fitting safety goggles |
| Skin and body protection | : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Protective measures | : Plan first aid action before beginning work with this product.
Always have on hand a first-aid kit, together with proper instructions.
Wear suitable protective equipment.
When using do not eat, drink or smoke.
In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use. |
| Hygiene measures | : General industrial hygiene practice.
Avoid contact with skin, eyes and clothing.
Do not inhale aerosol.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday. |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|----------------|--|
| Physical state | : liquid |
| Form | : liquid |
| Color | : red |
| Odor | : slight, characteristic |
| Odor Threshold | : No data available |
| pH | : 6,9 (25 °C)
Concentration: 10 g/l 1 % |

SAFETY DATA SHEET



PICUS™

Version 1.0	Revision Date: 21.06.2024	SDS Number: 50000343	Date of last issue: - Date of first issue: 21.06.2024
----------------	------------------------------	-------------------------	--

Melting point/freezing point	: < 0 °C
Boiling point/boiling range	: ca. 100 °C
Flash point	: > 100 °C
Evaporation rate	: No data available
Self-ignition	: > 400 °C
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: Not available for this mixture.
Relative vapor density	: No data available
Relative density	: No data available
Density	: 1.250 g/l (20 °C)
Solubility(ies)	
Water solubility	: Miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not available for this mixture.
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: 1.720 mPa.s (20 °C) 946 mPa.s (40 °C)
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing
Molecular weight	: Not applicable
Particle size	: Not applicable

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	Avoid extreme temperatures. Avoid formation of aerosol. Heat, flames and sparks. Heating of the product will produce harmful and irritant vapours.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.
May be harmful in contact with skin.

Product:

Acute oral toxicity	:	LD50 (Rat): 1.113 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	:	LC50 (Rat): 3,55 - 3,73 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The component/mixture is minimally toxic after single contact with skin. Remarks: no mortality

Components:

imidacloprid (ISO):

Acute oral toxicity	:	LD50 (Rat, male and female): > 1.000 mg/kg Symptoms: Tremors, piloerection, Breathing difficulties Remarks: no mortality LD50 (Rat, female): 300 - 2.000 mg/kg Method: OECD Test Guideline 423 Symptoms: Fatality, Convulsions, piloerection
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SAFETY DATA SHEET



PICUS™

Version 1.0	Revision Date: 21.06.2024	SDS Number: 50000343	Date of last issue: - Date of first issue: 21.06.2024
----------------	------------------------------	-------------------------	--

GLP: yes
Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 (Rat, female): 300 - 2.000 mg/kg
Method: OECD Test Guideline 420
Symptoms: Fatality, Tremors, ataxia
GLP: yes
Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 (Rat, female): ca. 2.567 mg/kg
Method: OECD Test Guideline 425
Symptoms: Fatality, Breathing difficulties
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,31 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: no mortality

LC50 (Rat, male and female): 5,17 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403
Symptoms: hypoactivity
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: no mortality

LC50 (Rat, male and female): > 4,9 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Symptoms: Breathing difficulties, ataxia, Convulsions, Tremors
Assessment: The component/mixture is minimally toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
Symptoms: Irritation
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: no mortality

LD50 (Rabbit): > 2.000 mg/kg

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Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

SAFETY DATA SHEET



PICUS™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

Skin corrosion/irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 404
Remarks	:	Minimal effects that do not meet the threshold for classification.

Components:

imidacloprid (ISO):

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes

urea:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405
Remarks	:	Minimal effects that do not meet the threshold for classification.

Components:

imidacloprid (ISO):

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes

urea:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

Respiratory sensitization

Not classified based on available information.

Product:

Test Type	:	Local lymph node assay (LLNA)
Assessment	:	Did not cause sensitization on laboratory animals.
Method	:	OECD Test Guideline 429
Result	:	Did not cause sensitization on laboratory animals.

Components:**imidacloprid (ISO):**

Test Type	:	Maximization Test
Species	:	Guinea pig
Result	:	Does not cause skin sensitization.

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitization.
GLP	:	yes

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro	:	Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	:	Method: OECD Test Guideline 474 Result: negative

Components:**imidacloprid (ISO):**

Genotoxicity in vitro	:	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes
	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative GLP: yes

SAFETY DATA SHEET



PICUS™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

Genotoxicity in vivo : Test Type: Cytogenetic assay
Species: Chinese hamster
Result: negative
GLP: yes

Test Type: Micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Test Type: dominant lethal test
Species: Mouse
Result: negative

Test Type: chromosome aberration assay
Species: Mouse
Result: negative

urea:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

urea:

Species : Rat
Application Route : Oral
Exposure time : 12 month(s)
Result : negative

Reproductive toxicity

Not classified based on available information.

Components:

imidacloprid (ISO):

Effects on fertility : Method: OECD Test Guideline 416
Result: Animal testing did not show any effects on fertility.

Method: OECD Test Guideline 416
Result: No effects on fertility and early embryonic development were detected.

Effects on fetal development : Species: Rabbit
Application Route: Oral
Dose: 0, 8, 24, 72 mg/kg bw/day
General Toxicity Maternal: NOAEL: 8 mg/kg bw/day

SAFETY DATA SHEET



PICUS™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

Method: OECD Test Guideline 414

Result: No teratogenic effects.

GLP: yes

Species: Rat

Dose: 0, 10, 30, 100 mg/kg bw/day

General Toxicity Maternal: NOEL: 10 mg/kg bw/day

Embryo-fetal toxicity.: NOEL: 30 mg/kg bw/day

Method: OECD Test Guideline 414

GLP: yes

Test Type: Multi-generation study

Species: Rat

Application Route: Oral

Dose: 8, 20, 56 mg/kg bw/day

General Toxicity Maternal: NOEL: 20 mg/kg body weight

Developmental Toxicity: NOEL: 20 mg/kg body weight

Result: No teratogenic effects.

GLP: yes

urea:

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 414

Result: negative

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

imidacloprid (ISO):

Species	: Dog
NOEL	: 1200 ppm
Application Route	: Oral - feed
Exposure time	: 90 d
Method	: OECD Test Guideline 409
GLP	: yes

Species	: Dog
LOAEL	: 49 mg/kg
Application Route	: Oral - feed
Exposure time	: 28 d
Dose	: 0, 7.3, 31, 49 mg/kg bw/day
Method	: OECD Test Guideline 409
Symptoms	: Tremors, ataxia, Vomiting

Species	: Dog, male and female
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SAFETY DATA SHEET



PICUS™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

NOEL	:	72 mg/kg bw/day
Application Route	:	Oral - feed
Exposure time	:	52 w
Dose	:	0, 6.1, 15, 41, 72 mg/kg bw/day
GLP	:	yes

urea:

Species	:	Mouse
NOAEL	:	45.000 mg/kg
Application Route	:	Oral
Exposure time	:	12 months

Aspiration toxicity

Not classified based on available information.

Components:

imidacloprid (ISO):

The substance does not have properties associated with aspiration hazard potential.

Further information

Product:

Remarks	:	No data available
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Components:

imidacloprid (ISO):

Remarks	:	No data available
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
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LC50 (Salmo gairdneri): 211 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 85 mg/l Exposure time: 48 h
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EC50 (Hyalalella azteca (Amphipod)): 0,055 mg/l Exposure time: 48 h
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Toxicity to algae/aquatic plants	:	IC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h
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SAFETY DATA SHEET



PICUS™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): 15 mg/kg
Exposure time: 14 d

Toxicity to terrestrial organisms : LD50 (*Coturnix japonica* (Japanese quail)): 31 mg/kg

LD50 (*Colinus virginianus* (Bobwhite quail)): 818 mg/kg

LD50 (*Apis mellifera* (bees)): 0,038 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity

LD50 (*Apis mellifera* (bees)): 0,0074 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity

Components:

imidacloprid (ISO):

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 105 mg/l
Exposure time: 96 h
Test Type: static test
Method: EPA OPP 72-1
GLP: yes

LC50 (*Salmo gairdneri*): 158 - 281 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 83 mg/l
Exposure time: 96 h
Test Type: static test
Method: EPA OPP 72-1
GLP: yes

LC50 (*Cyprinodon variegatus* (sheepshead minnow)): 161 mg/l
Exposure time: 96 h
Test Type: static test
GLP: yes

LC50 (*Leuciscus idus* (Golden orfe)): 178 - 316 mg/l
Exposure time: 96 h
Test Type: static test
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 85 mg/l
Exposure time: 48 h
Method: US EPA Test Guideline OPP 72-2
GLP: yes

EC50 (*Americamysis bahia* (mysid shrimp)): 0,0341 mg/l
Exposure time: 48 h

SAFETY DATA SHEET



PICUS™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

LC50 (*Hyalella azteca* (Amphipod)): 0,526 mg/l
Exposure time: 96 h
Method: US EPA Test Guideline OPP 72-2
GLP: yes

NOEC (*Crassostrea virginica* (atlantic oyster)): 23,3 mg/l
Exposure time: 96 h
Method: US EPA Test Guideline OPP 72-3
GLP: yes

Toxicity to algae/aquatic plants : EbC50 (*Scenedesmus subspicatus*): > 10 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

NOEC (*Selenastrum capricornutum* (green algae)): 119 mg/l
Exposure time: 5 d
GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (*Salmo gairdneri*): 28,5 mg/l
Exposure time: 21 d

NOEC (*Oncorhynchus mykiss* (rainbow trout)): 1,2 mg/l
End point: Growth
Exposure time: 98 d
Method: US EPA Test Guideline OPP 72-4
GLP: yes

NOEC (*Oncorhynchus mykiss* (rainbow trout)): 9,02 mg/l
End point: Hatching success
Test Type: flow-through test
Method: OECD Test Guideline 210
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 1,8 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: US EPA Test Guideline OPP 72-4
GLP: yes

EC10 (*Chironomus riparius* (harlequin fly)): 0,00209 mg/l
Exposure time: 28 d

NOEC (*Chironomus tentans*): 0,67 µg/l
End point: Growth
Exposure time: 10 d
Test Type: Static renewal test
GLP: yes

SAFETY DATA SHEET



PICUS™

Version 1.0	Revision Date: 21.06.2024	SDS Number: 50000343	Date of last issue: - Date of first issue: 21.06.2024
----------------	------------------------------	-------------------------	--

M-Factor (Chronic aquatic toxicity)	:	100
Toxicity to microorganisms	:	IC50 (activated sludge): > 10000
Toxicity to soil dwelling organisms	:	LC50 (Eisenia fetida (earthworms)): 10.7 mg/kg dry weight (d.w.) Exposure time: 14 d
Toxicity to terrestrial organisms	:	LD50 (Coturnix japonica (Japanese quail)): 31 mg/kg LD50 (Coturnix japonica (Japanese quail)): 2.225 ppm Exposure time: 5 d LD50 (Apis mellifera (bees)): 0,0037 µg/bee Exposure time: 48 h End point: Acute oral toxicity LD50 (Apis mellifera (bees)): 8.1 Exposure time: 48 h

Ecotoxicology Assessment

Other organisms relevant to the environment : Harmful to bees.

urea:

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 6.810 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 10.000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	NOEC (blue-green algae): 47 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	No data available (Pseudomonas putida): 10.000 mg/l Exposure time: 16 h

Persistence and degradability

Product:

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

Components:

imidacloprid (ISO):

Biodegradability : Result: Not readily biodegradable.

urea:

SAFETY DATA SHEET



PICUS™

Version 1.0 Revision Date: 21.06.2024 SDS Number: 50000343 Date of last issue: -
Date of first issue: 21.06.2024

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90 - 100 %
Exposure time: 21 d

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data is available on the product itself.

Components:

imidacloprid (ISO):

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 0,33 (20 °C)
Method: OECD Test Guideline 107

urea:

Partition coefficient: n-octanol/water : log Pow: -1,73

Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No data is available on the product itself.

Components:

imidacloprid (ISO):

Distribution among environmental compartments : Koc: 109 - 411
Remarks: Mobile in soils

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

Hygienic standards:

(Allowable concentration in air, water, including fishery waters, soil)

Components	Air	Water	Soil	Data Source
imidacloprid (ISO) 138261-41-3	No data available	MPC: 1 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary and toxico-	No data available	List 5

SAFETY DATA SHEET



PICUS™

Version 1.0 Revision Date: 21.06.2024 SDS Number: 50000343 Date of last issue: -
 Date of first issue: 21.06.2024

		logical effects Hazard class: 4 MPC: 1 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary - violation of environmental conditions: chang- ing trophic water bodies fishery; hydrochemical parameters: oxy- gen, nitrogen, phosphorus, pH, impaired self- purification of water bodies of water fishery: BOD5 (bio- chemical oxygen demand for 5 days), the number of saprophytic mi- croflora Hazard class: 4 MPC: 1 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary and toxico- logical effects Hazard class: 4		
urea 57-13-6	MPC - average: 0,2 mg/m ³ Limiting health haz- ard indicator: resorp- tive Hazard class: Class 4 - low hazard	MPC: 80 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 4 Limiting health hazard indicator: general sanitary Hazard class: Class 4 - low hazard	No data avail- able	List 1 List 4 List 5

For explanation of abbreviations see section 16.

SAFETY DATA SHEET



PICUS™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

14. TRANSPORT INFORMATION

ADR

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Imidacloprid)
Class : 9
Packing group : III
Labels : 9
Hazard Identification Number : 90
Tunnel restriction code : (-)
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Imidacloprid)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Imidacloprid)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

15. REGULATORY INFORMATION

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

The ingredients of this product are reported in the following inventories:

TCSI	: Not in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL. Sulfurous acid, monosodium salt, reaction products with cre-sol-formaldehyde-nonylphenol polymer imidacloprid (ISO) Pigment Red 48 : 2
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

16. OTHER INFORMATION

Full text of H-Statements

H302	Harmful if swallowed.
H333	May be harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
KZ OEL	: Kazakhstan. Order of the Ministry of Health No. KP DCM-70, Annex 2, Table 1 and Annex 3, Table 1 & 7 Maximum permissible concentration (MPC) of harmful substances in the air of the working area
RU OEL	: SanPiN 1.2.3685-21 Table 2.1 Maximum permissible concen-

SAFETY DATA SHEET



PICUS™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

- | | | |
|-------------------|---|--|
| KZ OEL / MPC-STEL | : | trations (MPC) of pollutants in the air of the working area |
| RU OEL / MPC-STEL | : | Maximum Permissible Concentration - Short Term Exposure |
| List 1 | : | Maximum Permissible Concentration - Short Term Exposure |
| | : | SanPiN 1.2.3685-21 Table 1.1 Maximum permissible concentration (MPC) of pollutants in the air of urban and rural settlements |
| List 4 | : | SanPiN 1.2.3685-21 Table 3.13 Maximum permissible concentrations (MPC) of chemicals in the water of drinking systems of centralized, including hot, and non-centralized water supply, water of underground and surface water bodies of domestic drinking and cultural and domestic water use, water of swimming pools, water parks |
| List 5 | : | Order of the Russian Federal Fisheries Agency "Standards of maximum permissible concentrations of harmful substances in fishery water bodies" |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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SAFETY DATA SHEET



PICUS™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	21.06.2024	50000343	Date of first issue: 21.06.2024

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