

Safety data sheet

according to Regulation (EU) 2020/878

Printing date 27.01.2022

Version number 2 (replaces version 1)

Revision: 27.01.2022

* SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier

- Trade name: **DX3 GEL**

- 1.2 Relevant identified uses of the substance or mixture and uses advised against

Insecticide for biocidal use (PT18)

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Zapi S.p.A.
Via Terza Strada, 12
35026 Conselve (PD) - Italy
Tel. +39 049 9597737 Fax +39 049 9597735

E-mail address of the competent person responsible for the SDS: techdept@zapi.it

- Further information obtainable from: Tech. dept.

- 1.4 Emergency telephone number: Zapi customer service (Tel. +39 049 9597737): 9:00-12:00 / 14:00-17:00

* SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

- Hazard pictograms



GHS09

- Signal word Not applicable

- Hazard statements

H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulation.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- **PBT:** The mixture does not contain PBT substances in concentration equal to or greater than 0.1% by weight.

- **vPvB:** The mixture does not contain vPvB substances in concentration equal to or greater than 0.1% by weight.

- Determination of endocrine-disrupting properties

The mixture does not contain substances with endocrine disrupting properties in concentration equal to or greater than 0.1% by weight.

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SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 138261-41-3 ELINCS: 428-040-8 Index number: 612-252-00-4	imidacloprid (ISO) Acute Tox. 3, H301 (ATE=131mg/kg bw); Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=1000)	0.0204%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	<0.01%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information:

Please refer to the instructions below for each specific way of exposure.
Keep the container or label available.

- **After inhalation:** Supply fresh air and to be sure call for a doctor.

- After skin contact:

Wash contaminated skin with soap and water.
Contact poison treatment specialist if symptoms occur.

- After eye contact:

Immediately flush with plenty of water, occasionally lifting the upper and lower eyelids.
Check for and remove any contact lenses if easy to do.
Continue to rinse with tepid water for at least 10 minutes.
Get medical attention if irritation or vision impairment occurs.

- After swallowing:

Wash out mouth with water.
Contact poison treatment specialist.

- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- 4.3 Indication of any immediate medical attention and special treatment needed

Warning: contact a poison centre or call 112.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.

- **For safety reasons unsuitable extinguishing agents:** To our knowledge, there are no unsuitable equipments.

- **5.2 Special hazards arising from the substance or mixture** In case of fire, toxic gases may be generated.

- **5.3 Advice for firefighters** Firefighters equipment in accordance with EN469 European standards.

- Protective equipment:

Do not inhale explosion gases or combustion gases.
Firefighters equipment in accordance with EN469 European standards.

- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up:

After cleaning up, ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Apply the product safely in areas not accessible to children, pets and non-target animals.

Wash hands after applying the product, and before eating, drinking or smoking.

Do not apply directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and animals.

Do not smoke near the product.

When using the product, do not eat, drink or smoke.

- Information about fire - and explosion protection:

See Section 6.

See section 5.

- 7.2 Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles:

Store in a cool and well-ventilated place away from heat sources.

Store only in original container.

- Information about storage in one common storage facility:

Store away from foodstuffs.

When handling the product, do not contaminate food, drinks or containers meant to contain them.

- Further information about storage conditions:

Store away from light.

Protect from frost.

Protect from humidity and water.

- 7.3 Specific end use(s) Insecticidal gel bait for ants control.

* SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

108-88-3 toluene

OEL (EU)	Short-term value: 384 mg/m ³ , 100 ppm
	Long-term value: 192 mg/m ³ , 50 ppm

- Regulatory information

OEL (EU): Directives 91/322/CEE, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2017/2398/EU, 2019/983/EU, 2019/1831/EU.

- PNECs

138261-41-3 imidacloprid (ISO)

Oral	PNEC	4.2 mg/kg food (secondary poisoning - bird)
		8.33 mg/kg food (secondary poisoning - mammal)

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PNEC	61.3 mg/l (sewage treatment plant)
PNEC	0.000026 mg/kg ww (sediment)
	0.01575 mg/kg ww (soil)
PNEC	4.8 ng/l (water)
- Other exposure limit values	
138261-41-3 imidacloprid (ISO)	
AEL - long term	0.06 mg/kg bw/d
AEL - medium term	0.2 mg/kg bw/d
AEL - short term	0.4 mg/kg bw/d

- 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from food, drink and animal feedingstuffs.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:** Not required during normal use of the product.
- **Hand protection** Not required during normal use of the product.
- **Eye/face protection** Not required during normal use of the product.
- **Environmental exposure controls** See section 6.
- **Risk management measures** Follow the above-reported directions.

* SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**- General Information**

- **Physical state** Liquid
- **Colour:** Colourless
- **Odour:** Characteristic
- **Odour threshold:** No data available.
- **Melting point/freezing point:** No data available.
- **Boiling point or initial boiling point and boiling range** No data available.
- **Flammability** Not flammable.
- **Lower and upper explosion limit**
- **Lower:** No data available.
- **Upper:** No data available.
- **Flash point:** >130°C (EC Reg. No. 440/2008 A.9)
- **Auto-ignition temperature:** No data available.
- **Decomposition temperature:** No data available.
- **pH at 20°C** 6.9 (CIPAC MT 75.3 - 1% aq.)
- **Viscosity:**
- **Kinematic viscosity** No data available.
- **Dynamic viscosity at 20°C:** 10060.0 - 8536.7 cP (CIPAC MT 192)
- **Solubility**
- **water:** Miscible
- **Partition coefficient n-octanol/water (log value)** No data available.
- **Vapour pressure:** No data available.
- **Density and/or relative density**
- **Density:** No data available.

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- Relative density at 20°C	1.3503 g/ml (CIPAC MT 3.2)
- Vapour density	No data available.
- 9.2 Other information	No further relevant information available.
- Appearance:	
- Form:	Ready-to-use gel
- Information with regard to physical hazard classes	
- Explosives	Not explosive
- Flammable gases	Not applicable
- Aerosols	Not applicable
- Oxidising gases	Not applicable
- Gases under pressure	Not applicable
- Flammable liquids	Not flammable
- Flammable solids	Not applicable
- Self-reactive substances and mixtures	Not self-reactive
- Pyrophoric liquids	Not pyrophoric
- Pyrophoric solids	Not applicable
- Self-heating substances and mixtures	Not self-heating
- Substances and mixtures, which emit flammable gases in contact with water	Not applicable
- Oxidising liquids	Not oxidising
- Oxidising solids	Not applicable
- Organic peroxides	Not applicable
- Corrosive to metals	Not corrosive to metals
- Desensitised explosives	Not applicable

* SECTION 10: Stability and reactivity

- **10.1 Reactivity** Under standard handling and storing conditions, the product does not show any dangerous reaction.
- **10.2 Chemical stability** Stable at room temperature and if used as recommended.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
Under standard handling and storing conditions, the product does not show any dangerous reaction.
- **10.5 Incompatible materials:**
Store only in original container.
Given the lack of information about possible incompatibilities with other substances, it is recommended not to use it in combination with other products.
- **10.6 Hazardous decomposition products:**
No dangerous decomposition products known under normal conditions of storage and use.

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:		
138261-41-3 imidacloprid (ISO)		
Oral	LD50	131 mg/kg bw (mouse - male)
Dermal	LD50	>5000 mg/kg bw (rat)
Inhalative	LC50/4h	Aerosol: >0.069 mg/l (rat) Dust: >5.323 mg/l (rat) Maximum attainable concentrations.

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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:** No further relevant information available.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
The mixture does not contain substances with endocrine disrupting properties in concentration equal to or greater than 0.1% by weight.

* SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic and/or terrestrial toxicity:	
138261-41-3 imidacloprid (ISO)	
EC50/3h	>10000 mg/l (activated sludge)
EC50/96h	0.00177 mg/l (caenis horaria) 0.00102 mg/l (cloeon dipterum)
ErC50/72h	>100 mg/l (senastrum capricornutum)
EC10/28d	0.000024 mg/l (caenis horaria) 0.000033 mg/l (cloeon dipterum)
LC50/96h	211 mg/l (oncorhynchus mykiss)
NOEC/91d	9.02 mg/l (oncorhynchus mykiss)
NOEC/72h	<100 mg/l (senastrum capricornutum)
NOEC	5600 mg/l (activated sludge)

- 12.2 Persistence and degradability

138261-41-3 imidacloprid (ISO)	
biodegradability	The substance is neither readily nor inherently biodegradable. In open aquatic systems the substance disappears very slowly while its disappearance is much shorter when exposed to light. In the soil the substance degrades very slowly under aerobic conditions.
Persistence	The results of some field studies in soil representative for northern as well as southern Europe resulted in an averaged DT50-value of 135 days (12°C) and reached maximum half-life of 185 and 338 days, thus confirming the high persistency of imidacloprid.

- 12.3 Bioaccumulative potential

138261-41-3 imidacloprid (ISO)	
bioconcentration factor	BCF fish = 0.61 BCF earthworm = 0.88 Estimated on basis of log Kow. The substance has low potential to bioaccumulate in organisms.
octanol-water partition coefficient	Log Kow = 0.57

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- 12.4 Mobility in soil	
138261-41-3 imidacloprid (ISO)	
organic carbon partition coefficient	Adsorption: 230 ml/g Desorption: 277 ml/g Moderately mobile in soil.

- 12.5 Results of PBT and vPvB assessment

- **PBT:** The mixture does not contain PBT substances in concentration equal to or greater than 0.1% by weight.

- **vPvB:** The mixture does not contain vPvB substances in concentration equal to or greater than 0.1% by weight.

- 12.6 Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in concentration equal to or greater than 0.1% by weight.

- 12.7 Other adverse effects	
138261-41-3 imidacloprid (ISO)	
.	Imidacloprid was shown to be highly toxic to bees both by oral and contact exposure. The 48 hour LD50 for oral toxicity was 0.0037 µg/bee. For contact toxicity a LD50 of 0.081 µg/bee was found.

- **General notes:** Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

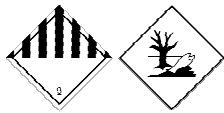
- 13.1 Waste treatment methods**- Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of in accordance with local requirements.

- Uncleaned packaging:

- **Recommendation:** Dispose of in accordance with local requirements.

* SECTION 14: Transport information

- 14.1 UN number or ID number	
- ADR, IMDG, IATA	UN3082
- 14.2 UN proper shipping name	
- ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (imidacloprid (ISO))
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (imidacloprid (ISO)), MARINE POLLUTANT
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (imidacloprid (ISO))
- 14.3 Transport hazard class(es)	
- ADR, IMDG, IATA	
	
- Class	9 Miscellaneous dangerous substances and articles.
- Label	9
- 14.4 Packing group	
- ADR, IMDG, IATA	III
- 14.5 Environmental hazards:	
- Marine pollutant:	Symbol (fish and tree)

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- Special marking (ADR):	Symbol (fish and tree)
- Special marking (IATA):	Symbol (fish and tree)
- 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
- Hazard identification number (Kemler code):	90
- EMS Number:	F-A,S-F
- Stowage Category	A
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Transport category	3
- Tunnel restriction code	-
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID (ISO)), 9, III

* SECTION 15: Regulatory information

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

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **Seveso category E2** Hazardous to the Aquatic Environment

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

- **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

The mixture does not contain substances identified as POP.

- **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

The product does not contain any substance included in annex XIV.

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 48, 75

- **Regulation (EU) No 649/2012 (PIC)**

138261-41-3 imidacloprid (ISO)

Annex I

- **REGULATION (EU) 2019/1148 - Explosive precursors**

The mixture does not contain explosives precursors in concentrations equal to or greater than 1%.

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- **National regulations:** No further information available.
- **Other regulations, limitations and prohibitive regulations** No further information available.
- **Substances of very high concern (SVHC) according to REACH, Article 59**
The mixture does not contain SVHC substances in concentration equal to or greater than 0.1% by weight.
- **Regulation (EC) n. 1005/2009: substances that deplete the ozone layer**
The mixture does not contain substances that deplete the ozone layer.
- **15.2 Chemical safety assessment:**
A Chemical Safety Assessment according to Regulation (EC) No. 1907/2006 has not been carried out for the mixture.

* SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Any responsibility derived from misuse of the product or in case of violation of current regulations is refused.

- Relevant phrases

- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

- Classification according to Regulation (EC) No 1272/2008

Physico-chemical hazards: the classification of the mixture is based on the criteria established by annex I, part 2, of Regulation (EC) No. 1272/2008. If relevant, the methods are reported in section 9.
Health and environmental hazards: the classification of the mixture is based on the calculation method stated in annex I, parts 3 and 4, of Regulation (CE) No. 1272/2008, using components data.

- Abbreviations and acronyms:

RD50: Respiratory Decrease, 50 percent
 LC0: Lethal concentration, 0 percent
 NOEC: No Observed Effect Concentration
 IC50: Inhibitory concentration, 50 percent
 NOAEL: No Observed Adverse Effect Level
 EC50: Effective concentration, 50 percent
 EC10: Effective concentration, 10 percent
 AEC: Acceptable Exposure Concentration
 LL0: Lethal Load, 0 percent
 AEL: Acceptable Exposure Limit
 LL50: Lethal Load, 50 percent
 EL0: Effective Load, 0 percent
 EL50: Effective Load, 50 percent
 ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids – Category 2
 Acute Tox. 3: Acute toxicity – Category 3
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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- **References** - Assessment Report on the active substance Imidacloprid (ISO) (available at ECHA website);

- **Sources**

1. The E-Pesticide Manual 2.1 Version (2001)
2. Regulation (EC) 1907/2006 and following amendments
3. Regulation (EC) 1272/2008 and following amendments
4. Regulation (EU) 2020/878
5. Regulation (EU) 528/2012
6. Regulation (EC) 790/2009 (1st ATP CLP)
7. Regulation (EU) 286/2011 (2nd ATP CLP)
8. Regulation (EU) 618/2012 (3rd ATP CLP)
9. Regulation (EU) 487/2013 (4th ATP CLP)
10. Regulation (EU) 944/2013 (5th ATP CLP)
11. Regulation (EU) 605/2014 (6th ATP CLP)
12. Regulation (EU) 2015/1221 (7th ATP CLP)
13. Regulation (EU) 2016/918 (8th ATP CLP)
14. Regulation (EU) 2016/1179 (9th ATP CLP)
15. Regulation (EU) 2017/776 (10th ATP CLP)
16. Regulation (EU) 2018/669 (11th ATP CLP)
17. Regulation (EU) 2019/521 (12th ATP CLP)
18. Regulation (EU) 2018/1480 (13th ATP CLP)
19. Regulation (EU) 2020/217 (14th ATP CLP)
20. Regulation (EU) 2020/1182 (15th ATP CLP)
21. Regulation (EU) 2021/643 (16th ATP CLP)
22. Regulation (EU) 2021/849 (17th ATP CLP)
23. Directive 2012/18/EU (Seveso III)
24. ECHA web site

- * **Data compared to the previous version altered.**