

SECTION 1: Product and Company Identification

1.1. Product identifier

Trade name : Xytect 10%, Xytect Injectable Insecticide
Product code : EPA Reg. No. 74779-11

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

1.2.1. Relevant identified uses

Use of the substance/preparation : Insecticide

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Rainbow Treecare Scientific Advancements
11571 K-Tel Drive
Minnetonka, MN 55343
Phone: 1-(877) 272-6747 (toll free)
www.treecarescience.com

1.4. Emergency telephone number

Emergency number : (800)-424-9300 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Label elements

GHS Labeling Elements

Hazard pictograms (CLP) :



Signal word : WARNING

Hazard statements : Heating may cause a fire
Causes mild skin irritation
Causes eye irritation
Suspected of damaging fertility or the unborn child

Precautionary statements (prevention) : Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from flames and hot surfaces – no smoking. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Precautionary statements (response) : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Precautionary statements (disposal) : Dispose of contents and container in accordance with all local, regional, national and international regulations.



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SECTION 3: Composition/information on ingredients

| Name | CAS No. | %/wt. |
|---------------------|-------------|--------------|
| Imidacloprid* | 138261-41-3 | 10.0 |
| Other ingredients** | No CAS# | Trade Secret |

*Active Ingredient

** Other ingredients, which are maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identity is withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document.

SECTION 4: First aid measures

4.1. Description of first aid measures

Have the product container, label, or SDS with you when calling a poison control center or doctor, or going in for treatment.

- INGESTION** : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- SKIN CONTACT** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice if irritation develops.
- EYE CONTACT** : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice if irritation develops or persists.
- INHALATION** : Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- NOTE TO PHYSICIAN** : There is no specific antidote available. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water fog, carbon dioxide, dry chemical, or foam

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Toxic and irritating compounds may be released upon exposure to fire or intense heat
- Reactivity : The product is stable at normal handling- and storage conditions, but may burn if heated. Flash point: 202.1°F
Read entire document.

5.3. Advice for firefighters

Firefighting instructions : Use self-contained breathing apparatus and full protective clothing. Use water spray (fog) to cool nearby containers and structures exposed to fire.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop spill at its source. Dike area and contain. If possible, collect liquid into salvage tank. Remaining residue may be taken up with inert absorbent material and placed into appropriate containers for disposal. Evaporate until all vapors are gone. Dispose of in accordance with all State and Federal regulations.

6.1.1. For non-emergency personnel

Protective equipment : See Section 8. Exposure Controls/Personal Protection

Emergency procedures : Avoid contact with spilled material

6.1.2. For emergency responders

Protective equipment : Wear appropriate personal protective equipment (PPE): Eye and face protection, coveralls, gloves, boots.

6.2. Environmental precautions

Product is highly toxic to aquatic invertebrates. Prevent material from entering sewers, waterways, or low areas. Do not allow material to contaminate water systems.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate air. Cleanup personnel require protective clothing and respiratory protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands thoroughly with soap and water after handling. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in an upright position, above 45° F, in a cool, dry place. Do not contaminate water, food, feed by storage or disposal.

SECTION 8: Exposure controls/personal protection

8.1. Personal protective equipment

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: Wear compatible chemical resistant gloves (such as barrier laminate; butyl rubber ≥ 14 mils; nitrile rubber ≥ 14 mils; or neoprene rubber ≥ 14 mils). Wear long sleeved shirt and long pants, shoes plus socks.

Respiratory Protection: Not normally needed. If vapors or mists are present, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use



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and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

8.2. Exposure controls

Exposure limits have not been established for the active ingredients in this product. Other ingredient exposure limits are listed below, where applicable:

Other Ingredient

AIAH – Workplace Environmental Exposure Levels (WEELs – TWA) – 0.5 ppm

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--------------------------|--------------------------|
| Physical state | : Liquid |
| Color | : Clear yellow |
| Odor | : Fruity fragrance |
| Odor threshold | : No data available |
| pH (1%) | : 4.65 |
| Flash point | : 202.1°F (94.5°C) |
| Flammability Limit (UEL) | : 1.5 |
| Flammability Limit (LEL) | : 9.7 |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : 352°F (178°C) |
| Vapor Pressure | : 0.2 mmHg @ 68°F (20°C) |
| Vapor Density | : 2.7 (air = 1) |
| Specific Gravity | : 1.1102 g/ml @ 22°C |
| Density | : 1.107 g/ml |
| Evaporation rate | : Slow (< 0.01) |
| Solubility in Water | : Limited |

9.2. Other information

Product may form white crystals when mixed with water.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat, sparks, or open flame



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10.5. Incompatible materials

Oxidizing materials

10.6. Hazardous decomposition products

Combustion produces carbon monoxide, carbon dioxide and sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity data for XYTECT 10% are provided below:

| Xytect 10% | |
|---|---|
| Oral - LD ₅₀ (male and female rat) | >2000 mg/kg |
| Dermal - LD ₅₀ (male and female rat) | >2000 mg/kg |
| Irritation | : Skin – Slight irritant (rabbit). Eye – Mild irritant (rabbit) |
| Sensitization | : No data available |

Chronic/sub-chronic toxicity data for XYTECT 10% is not available. Data for active ingredient and other components are provided below:

| Imidacloprid | |
|---------------------------------------|--|
| Carcinogenicity | : Imidacloprid is not listed as a carcinogen by IARC, NTP, OSHA or ACGIH. |
| Reproductive & Developmental toxicity | : No reproductive or teratogenic (birth defect) effects at normal exposure levels. |
| Mutagenicity | : Little or no evidence of mutagenic effects during in vivo or in vitro studies. |

| Other ingredients | |
|---------------------------------------|---|
| Carcinogenicity | : Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH. |
| Reproductive & Developmental toxicity | : Suspected of damaging fertility or the unborn child. |
| Mutagenicity | : No data available |
| Other (acute or chronic) | : INGESTION: irritating to mouth, throat, and stomach |

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological Summary

XYTECT 10% is highly toxic to aquatic organisms and bees. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

Ecotoxicity data

Ecotoxicity data are not available for XYTECT 10%. Active ingredient data are given below:



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| Imidacloprid Technical | |
|----------------------------------|-----------------------------|
| Fish (Rainbow Trout 96 hr.) | LC50: 211 mg/L |
| Fish (Bluegill 96 hr.) | LC50: unknown |
| Acute toxicity to Mallard ducks | Oral LC50: 4700 ppm |
| Acute toxicity to Bobwhite quail | Oral LC50: 1500 ppm |
| Acute toxicity to Honey bee | Contact LD50: Highly toxic! |

Refer to product label for specific directions on pollinator protection.

12.2. Persistence and degradability

FATE : Imidacloprid has a soil half-life of 29-225 days depending on soil type conditions. It is soluble in water and has the potential to leach in permeable soil types.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Pesticide Disposal: Applicators must dispose of any unused product as the label indicates. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Do not reuse original product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

SECTION 14: Transport information

Not Regulated by US DOT for ground shipment

Ground transport

Not Regulated by US DOT

Transport by sea (IMDG)

Not regulated

Air transport (IATA)

Not regulated

SECTION 15: Regulatory information

FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word : CAUTION
Hazard statements : Harmful if swallowed or absorbed through skin. Causes eye irritation.



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Precautionary statements : Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

SARA Title III Status:

311/312 Hazard Categories

: Immediate Health Hazard

313 Toxic Chemicals

: None known

Other U.S. Federal Regulations

OSHA: This product is considered hazardous under the criteria of the OSHA Hazard Communication Standard 29 CFR Part 1910.1200.

TSCA: This product is exempt from TSCA regulation under FIFRA Section 3 (2) (B) (ii) when used as a pesticide.

CERCLA/DOT Reportable Quantities (RQ): Not applicable.

SECTION 16: Other information

| | | |
|--------------------------|--|---|
| NFPA HAZARD RATING | HEALTH | 1 |
| | FLAMMABILITY | 1 |
| | REACTIVITY | 1 |
| | 4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal | |

MSDS US

Disclaimer: The information provided by Rainbow Treecare Scientific Advancements, contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

REVISION: June 2015

REASON: GHS Compliance