

SAFETY DATA SHEET

TEKKO™10

1. IDENTIFICATION

Product name: **TEKKO™10**
Product type: Insect Growth Regulator
EPA Registration No.: 53883-348
Chemical name of active ingredient(s): **Novaluron: 1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoro-methoxyethoxy) phenyl]-3-(2,6-difluorobenzoyl)urea**

Manufacturer/Registrant: Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507

For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300
For medical emergencies and health and safety inquiries, contact Safety Call: Phone: 1-866-897-8050
Poison Control Center Phone: 1-800-222-1222

2. HAZARDS IDENTIFICATIONS

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Toxicity:

	Acute oral	Acute dermal	Acute inhalation	Eye irritation	Skin irritation	Skin Sensitization
Category	NC	NC	4	2A	2	1B

NC: Not classified

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

- Harmful if inhaled
- Causes serious eye irritation
- Causes skin irritation
- May cause allergic skin reaction

PICTOGRAM:



PRECAUTIONARY STATEMENTS:

- Avoid breathing mist, vapors or spray. Use in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell.
- Wash hands thoroughly after handling. Wear eye protection or face protection. 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.
- Wash hand thoroughly after handling. Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace. If on skin: wash with plenty of water. If skin irritation or rash occurs: get medical advice. Take off contaminated clothing and wash it before reuse.

Contact Safety Call® International for emergency medical treatment at (866) 897-8050.

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STORAGE AND DISPOSAL: See Section 7 and 13.

OTHER HAZARDS: See Section 11 and 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Novaluron	116714-46-6	9.3	NE	NE	NE	NA
n-Methyl-2-pyrrolidone	872-50-4	40-50	NE	NE	10 ppm* TWA	NA

NE=Not established; NA=Not applicable.

* Workplace Environmental Exposure Levels (WEEL)

4. FIRST AID MEASURES

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • 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 SWALLOWED:	<ul style="list-style-type: none"> • 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 do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.</p>	
<p>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

5. FIRE FIGHTING MEASURES

FLASH POINT: > 230°C

FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Water spray, fog, CO₂, foam, dry chemical.

FIRE & EXPLOSION HAZARDS: Pesticide fires have potential to emit hazardous gases such as carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen chloride, nitrogen oxides, sulfur oxides, acid halides. If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire

FIRE-FIGHTING PROCEDURES: Isolate fire area and evacuate downwind. DO NOT breathe gases, smoke or vapors generated. Wear self-contained breathing apparatus and full-protective clothing. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

HAZARDOUS DECOMPOSITION PRODUCTS: May release irritating and toxic gases due to thermal decomposition.

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6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Keep unnecessary personnel away. Do not touch or walk through spilled material. In case of spillage or leakages, eliminate all ignition sources. Soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste. Remove any contaminated soil. Place in closed, labeled containers and store in a safe place until disposed. Do not contaminate water while cleaning equipment or disposing of wastes. This product is toxic to fish. Prevent entry into waterways, sewers, basements or confined areas. Use proper protective equipment to minimize exposure. Take all necessary actions to prevent and to remedy the adverse effects of the spill. Ensure that the disposal is in compliance with federal requirements and state or local regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Do not contaminate water, food, or feed by storage or disposal or disposal. Open dumping is prohibited. Carefully open containers and after partial use close container tightly. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in a cool dry place away from heat or open flame. Do not reuse or refill empty container.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Protective eyewear or chemical safety glasses with side shields or chemical goggles when working in non-ventilated spaces.

HAND PROTECTION: Wear suitable gloves.

SKIN PROTECTION: Wear suitable protective clothing and chemical resistant boots.

RESPIRATOR REQUIREMENTS: For most conditions, no respiratory protection should be needed; however, if handling without sufficient ventilation, use NIOSH approved air-purifying respirator with any R, P or HE filter.

VENTILATION: Whenever possible, adequate ventilation should be used to minimize the need for personal protective equipment.

ADDITIONAL PROTECTIVE MEASURES:

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

USER SAFETY RECOMMENDATIONS:

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE GUIDELINES: Refer to Section 3.

ENGINEERING CONTROLS: Refer to product label. Minimize airborne concentrations.

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Off-white to pinkish liquid

ODOR: Faint odor

pH: 4.58

FLASH POINT: > 230°C

DENSITY: 0.924

VISCOSITY: Not available

BOILING POINT: Not available

VAPOR PRESSURE: Not available

SOLUBILITY: Not available

PARTITION COEFFICIENT: Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: May release irritating and toxic gases due to thermal decomposition.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD₅₀ (Rat): > 5,000 mg/kg

Acute Dermal LD₅₀ (Rabbit): > 2,000 mg/kg

Acute Inhalation LC₅₀ (Rat): > 2 mg/L/4 hr.

Eye Irritation: Severely Irritating

Skin Irritation: Moderately irritating

Dermal Sensitization: Positive skin sensitizer

CARCINOGENICITY: Not carcinogenic.

MUTAGENICITY: No evidence of genotoxicity.

REPRODUCTIVE TOXICITY: Not teratogenic in animal experiments.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product is toxic to freshwater and marine invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

ECOTOXICOLOGICAL INFORMATION: Moderately toxic to avian species. Moderately toxic to fish and moderately to very highly toxic to aquatic invertebrate species. practically non-toxic to bees.

AVIAN TOXICITY:

Oral LD₅₀ mallard duck: > 2000 mg/kg

Oral LD₅₀ bobwhite quail: > 2000 mg/kg

Dietary LC₅₀ mallard duck: > 5310 ppm

Dietary LC₅₀ bobwhite quail: > 5200 ppm

Reproduction bobwhite quail: NOEL = 300 ppm

Reproduction mallard duck: NOEL = 30 ppm

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AQUATIC ORGANISM TOXICITY:

Freshwater species:

LC₅₀ (96 hr.) Bluegill Sunfish: > 960 ppb

LC₅₀ (96 hr.) Rainbow Trout: > 1 mg/l

LC₅₀ (21 day) Rainbow Trout: > 6.16 ppb

EC₅₀ (48 hr.) Daphnia magna: = 0.058 mg/l

Estuarine species:

LC₅₀ (96 hr.) Sheepshead Minnow: > 2.0 ppb

LC₅₀ (96 hr.) Mysid Shrimp: 0.13 ppb

EC₅₀ (96 hr.) Eastern Oyster: 1.5 ppb

OTHER NON-TARGET ORGANISM TOXICITY:

LD₅₀ (48 hr.) > 100 ug/bee.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spilled bait, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

Ground Domestic (DOT):

Not regulated

Vessel (IMDG): UN3082, Environmentally Hazardous substances, liquid, n.o.s. (novaluron), 9, PG III,
Marine Pollutant

Air (IATA): UN3082, Environmentally Hazardous substances, liquid, n.o.s. (novaluron), 9, PG III

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 for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

WARNING Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Applicators must wear chemical resistant gloves.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable

Section 311/312: Acute health hazard (immediate)
Chronic health hazard

Section 313: N-Methyl-2-pyrrolidone CAS#: 872-50-4

CA PROPOSITION 65: This product contains N-Methyl-2-pyrrolidone, CAS#: 872-50-4, known to the State of California to cause birth defects or other reproductive harm.

CERCLA RQ: Not applicable

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RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

STATE RIGHT TO KNOW: N-Methyl-2-pyrrolidone CAS#: 872-50-4 – MA, PA and NJ

16. OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS	
HEALTH:	2	2	0 MINIMAL
FLAMMABILITY:	0	0	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

SDS DATE: 10-7-2014.

The information and recommendations contained herein are based upon data believed to be correct. However, no warranty of any kind, expressed or implied, is made with respect to the information contained herein.