



# SAFETY DATA SHEET

## Surrender® Fire Ant Bait

### SECTION 1: IDENTIFICATION

**Product Name:** Surrender® Fire Ant Bait  
**EPA Registration No.:** 53883-417  
**Recommended Use:** Insecticide; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** N/A – Multiple active ingredients  
**Chemical Name of Active Ingredient(s):** Indoxacarb, Novaluron, and Pyriproxyfen  
**Manufactured for:** Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300**

**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050**

### SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Yellow granules with a moderately sweet odor.

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

This product does not meet the regulatory definition of a hazardous chemical under 29 CFR 1910.1200. However, good industrial hygiene practices should be used in the manufacture and handling of the product.

**Signal Word:** None required  
**Hazard Statement(s):** None required  
**Precautionary Statement(s):**  
**Prevention:** No statements required  
**Response:** No statements required  
**Storage:** No statements required  
**Disposal:** No statements required

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Indoxacarb	173584-44-6	0.045%
Novaluron	116714-46-6	0.01%
Pyriproxyfen	95737-68-1	0.01%

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES	
<b>IF IN EYES:</b>	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>IF ON SKIN:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
<b>IF INHALED:</b>	Move person 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 further treatment advice.
<b>IF INGESTED:</b>	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.

**Most important symptoms/effects, acute and delayed:** None known

SECTION 5: FIRE-FIGHTING MEASURES	
<b>Suitable Extinguishing Media:</b>	Foam, dry chemical, carbon dioxide or water spray
<b>Unsuitable Extinguishing Media:</b>	Water jet
<b>Hazardous Combustion Products:</b>	Thermal decomposition may produce toxic oxides of carbon and nitrogen.
<b>Special Protective Equipment &amp; Precautions:</b>	Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).
<b>Unusual Fire &amp; Explosion Hazards:</b>	None known

SECTION 6: ACCIDENTAL RELEASE MEASURES	
<b>Personal Precautions:</b>	See Section 8 for personal protection equipment.
<b>Environmental Precautions:</b>	Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.
<b>Methods for Containment:</b>	Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Dike large spills using an impervious material such as clay or sand. Recover and contain as much spilled material as possible for reuse.
<b>Methods for Clean-up:</b>	Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.
<b>Other Information:</b>	None known

**SECTION 7: HANDLING AND STORAGE**

**Handling:** RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product.

**Storage:** **See pesticide label for full information on product storage.** Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

**Storage Temperature (Min/Max):** Avoid extreme temperatures

**Product Incompatibilities:** Strong oxidizing agents

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

**Exposure Guidelines:**

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
None listed			

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for general particulates.

**Eye Protection:** Chemical goggles or safety glasses

**Protective Gloves:** Water-proof gloves

**Other Protective Clothing:** Long-sleeved shirt, long pants and shoes plus socks.

**General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Yellow granules	<b>Upper/Lower Flammability Limits:</b>	Not determined
<b>Odor:</b>	Moderately sweet	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>pH (1% dispersion):</b>	6.0 – 7.0	<b>Bulk Density (@ambient temp.):</b>	0.269 g/cm <sup>3</sup> (16.8 lbs/ft <sup>3</sup> )
<b>Melting /Freezing Point:</b>	Not determined	<b>Solubility:</b>	Not determined
<b>Boiling Point/Range:</b>	Not determined	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point:</b>	Not applicable	<b>Auto-ignition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Viscosity:</b>	Not applicable

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No hazardous chemical reactions known.
<b>Chemical Stability:</b>	Stable under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions:</b>	No potential for hazardous reactions known.
<b>Conditions to Avoid:</b>	Extreme temperatures, direct sunlight and exposure to moisture.
<b>Incompatible Materials:</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may produce toxic oxides of carbon and nitrogen.

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Likely Routes of Exposure:</b>	Eye contact, Skin contact, Ingestion, Inhalation
<b>Symptoms of Exposure:</b>	None known
<b>Oral LD<sub>50</sub>:</b>	>5,000 mg/kg (rat)
<b>Dermal LD<sub>50</sub>:</b>	Not anticipated to be acutely toxic via dermal absorption based upon component data.
<b>Inhalation LC<sub>50</sub>:</b>	Not anticipated to be acutely toxic via inhalation based upon component data.
<b>Eye Irritation/Damage:</b>	Non-irritant (rabbit)
<b>Skin Corrosion/Irritation:</b>	Not anticipated to cause dermal irritation based upon component data.
<b>Skin Sensitization:</b>	Not anticipated to cause dermal sensitization based upon component data.

<b>Chronic/Subchronic Toxicity:</b>	No data available
<b>Mutagenicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No data available
<b>Neurotoxicity:</b>	No data available
<b>Target Organs:</b>	No data available
<b>Aspiration Hazard:</b>	No data available
<b>Carcinogenicity:</b>	No data available

Chemical Name	ACGIH	IARC	NTP	OSHA
No components listed				

**SECTION 12: ECOLOGICAL INFORMATION****Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

Do not apply where/when conditions could favor runoff. Cover, incorporate, or clean up granules that are spilled.

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 water when disposing of equipment rinse water.

**ECOTOXICITY DATA:**

<b>Fish Toxicity:</b>	Indoxacarb Technical: Rainbow trout: 96-hour LC <sub>50</sub> = 0.65 mg/L Pyriproxyfen Technical: <i>L. macrochirus</i> : 96-hour LC <sub>50</sub> >0.27 mg/L Novaluron Technical: <i>L. macrochirus</i> : 96-hour LC <sub>50</sub> >960 ppb
<b>Aquatic Invertebrate Toxicity:</b>	Indoxacarb Technical: <i>Daphnia magna</i> : 48-hour EC <sub>50</sub> = 0.60 mg/L Pyriproxyfen Technical: <i>Daphnia magna</i> : 48-hour EC <sub>50</sub> = 0.4 mg/L Novaluron Technical: <i>Daphnia magna</i> : 48-hour EC <sub>50</sub> = 0.058 mg/L
<b>Aquatic Plant Toxicity:</b>	Pyriproxyfen Technical: <i>Selenastrum capricornutum</i> : 72 hr EC <sub>50</sub> = 0.15 mg/L
<b>Avian Toxicity:</b>	Indoxacarb Technical: Bobwhite Quail: Oral LD <sub>50</sub> = 98 mg/kg Pyriproxyfen Technical: Bobwhite Quail: Oral LD <sub>50</sub> >1,906 mg/kg Novaluron Technical: Bobwhite Quail: Oral LD <sub>50</sub> >2,000 mg/kg
<b>Honeybee Toxicity:</b>	Pyriproxyfen Technical: Oral LD <sub>50</sub> >98.3 µg/bee Novaluron Technical: Oral LD <sub>50</sub> >100 µg/bee

**ENVIRONMENTAL EFFECTS:**

<b>Persistence and Degradability:</b>	No data available on the mixture
<b>Bioaccumulation:</b>	No data available on the mixture
<b>Mobility:</b>	No data available on the mixture
<b>Other Adverse Effects:</b>	No data available on the mixture

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>Waste Disposal:</b>	<b>Refer to the pesticide label for full information on disposal.</b> Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used 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 in proper disposal methods.
<b>Container Disposal:</b>	<b>Refer to the pesticide label for full information on disposal.</b> When possible, triple rinse the container and offer for recycling if available.
<b>RCRA Characteristics:</b>	It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT**  
**(Ground):** Not regulated

**IMDG**  
**(Sea):** Not regulated

**IATA**  
**(Air):** Not regulated

**SECTION 15: REGULATORY INFORMATION**

**Labeling Requirements Under FIFRA:** 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:

No signal word or precautionary statements required.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

**Section 302 – Extremely hazardous substances:** None

**Section 311/312 – Hazard Categories:** None

**Section 313** – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %	SARA 313 – Threshold Values (lbs)
None listed			

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
None listed			

**CALIFORNIA PROPOSITION 65:**

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
None listed			

**SECTION 16: OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards 1</b>	<b>Flammability 0</b>	<b>Instability 0</b>	<b>Special Hazards – None</b>
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**Revision Date:** June 30, 2017  
**Document Superseded:** N/A – New document  
**Revision Note:**