

# MATERIAL SAFETY DATA SHEET (MSDS)

<b>Troy Biosciences, Inc.</b> 113 South 47th Avenue Phoenix, AZ 85043 USA	<b>FOR MSDS INFORMATION: (602) 233-9047</b> <b>24 HOUR EMERGENCY PHONE NUMBER</b> <b>CHEMTREC 1-800-424-9300</b>	<b>Stimukil Fly Bait</b>  Effective Date: April 21, 2005 Replaces: January, 2002		
<b>1. PRODUCT &amp; COMPANY IDENTIFICATION</b>				
<b>PRODUCT NAME</b> <b>CHEMICAL NAME</b> <b>CHEMICAL FAMILY</b> <b>FORMULA</b> <b>SYNONYMS</b>	Stimukil Fly Bait Not applicable Not applicable Proprietary None	<b>MANUFACTURER</b>  Troy Biosciences, Inc. 113 South 47th Avenue Phoenix, AZ 85043		
<b>2. COMPOSITION/INFORMATION ON INGREDIENTS</b>				
The listed components are considered to be hazardous based on OSHA's Hazard Communication Standard. For further regulatory information, see Section 15.				
<b>CHEMICAL NAME</b>	<b>CAS#</b>	<b>%</b>	<b>AGENCY</b>	<b>EXPOSURE LIMITS</b>
Methomyl	16752-77-5	1	ACGIH	TWA: 2.5 mg/m <sup>3</sup>
(Z)-9-tricosene	27519-02-4	0.04	Not applicable	None established
OSHA Regulatory Status: This product is classified as hazardous under OSHA regulations.				
<b>3. HAZARDS IDENTIFICATION - POTENTIAL HEALTH EFFECTS</b>				
<b>EMERGENCY OVERVIEW</b>				
Stimukil Fly Bait is a blue granular material with a sulfurous odor. Excessive inhalation may be harmful. Toxic to birds, fish, aquatic invertebrates and mammals.				
<b>ROUTES OF ENTRY</b>	Ingestion, skin contact, skin absorption, eyes, inhalation			
<b>INGESTION</b>	Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects. Ingestion of excessive quantities may cause gastrointestinal irritation (nausea and vomiting). May cause cholinesterase inhibition.			
<b>SKIN</b>	Direct contact may cause slight skin irritation. Harmful if absorbed through skin.			
<b>EYE CONTACT</b>	Essentially non-irritating.			
<b>INHALATION</b>	Excessive inhalation may be harmful.			
<b>CHRONIC EFFECTS</b>	Methomyl is a cholinesterase inhibitor. Symptoms include sweating, salivation, nausea, headache, diarrhea, vomiting, cyanosis, skin rash.			
<b>TARGET ORGANS</b>	Central nervous system, eyes, skin, respiratory system.			
<b>CARCINOGENICITY</b>	This product (or component) is not listed as a carcinogen according to OSHA, NTP, IARC, and ACGIH.			
<b>MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE</b>	May aggravate respiratory and skin disorders and allergies.			
<b>4. FIRST AID MEASURES</b>				
<b>INGESTION</b>	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.			
<b>SKIN CONTACT</b>	Remove contaminated clothing. Wash affected areas with soap or mild detergent and large amounts of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.			
<b>EYE CONTACT</b>	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 the eye. Call a poison control center or doctor for treatment advice.			
<b>INHALATION</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>NOTES TO PHYSICIAN</b>	If cholinesterase inhibition is suspected, atropine by injection is antidotal.			
<b>5. FIRE FIGHTING MEASURES</b>				
<b>FLASH POINT</b>	Not applicable			
<b>FLAMMABLE LIMITS</b>	Not applicable			
<b>FLAMMABILITY CLASS</b>	Not applicable			
<b>HAZARDOUS PRODUCTS OF COMBUSTION</b>	Carbon monoxide, carbon dioxide.			
<b>FIRE EXTINGUISHING MEDIA</b>	Dry chemical, carbon dioxide, water spray, or regular foam.			
<b>FIRE FIGHTING INSTRUCTIONS</b>	Move container from fire if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Avoid breathing vapors, keep upwind. Firefighters should use self-contained breathing apparatus with full facepiece.			
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</b>	None			
<b>6. ACCIDENTAL RELEASE MEASURES</b>				
Keep unnecessary people away from spill area. Wear protective equipment as specified in Section 8. Stop leak if you can do it without risk. For small dry spills, shovel material into clean, dry container and cover loosely; move containers from spill area. For large dry spill, cover spill with plastic sheet or tarp to minimize spreading or, if wet, dike far ahead of liquid spill for later disposal. If water pollution occurs, notify the appropriate authorities. <b>Observe all Federal, State, and Local regulations regarding notifications of accidental releases.</b>				
<b>7. HANDLING &amp; STORAGE</b>				
Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly after handling. Keep container tightly closed. Use only with adequate ventilation. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Avoid breakage of bagged material or spills of bulk material. Store away from incompatible substances in a cool, dry, ventilated area. Do not contaminate water, food, or feed by storage or disposal. <b>Observe all Federal, State, and Local regulations when storing or disposing of this substance.</b>				

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<b>8. PERSONAL PROTECTION/EXPOSURE CONTROLS</b>				
<b>VENTILATION</b>	Provide local exhaust or process enclosure ventilation to meet published exposure limits.			
<b>EYE/FACE PROTECTION</b>	Essentially non-irritating. If potential for contact with material exists, use safety glasses with sideshields or other approved eye protection.			
<b>SKIN PROTECTION</b>	Direct contact may cause slight skin irritation. Wear impervious gloves and apron to prevent skin contact.			
<b>RESPIRATORY PROTECTION</b>	A respiratory protection program meeting OSHA 1910.134 must be followed whenever workplace conditions warrant the use of a respirator. If exposure may exceed recommended limits, a NIOSH/MSHA-approved respirator should be used based on exposure levels found in the workplace.			
<b>OTHER</b>	Eyewash and safety shower should be available within the immediate work area for emergency use.			
<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>				
<b>APPEARANCE</b>	Blue granules	<b>SPECIFIC GRAVITY AT 25°C. (Water=1)</b>	Not determined	
<b>ODOR</b>	Sulfurous	<b>WATER SOLUBILITY</b>	Soluble	
<b>INITIAL BOILING POINT</b>	Not applicable	<b>pH</b> (1% aqueous solution)	Not determined	
<b>VAPOR PRESSURE AT 20°C.</b>	Not applicable	<b>EVAPORATION RATE (Butyl acetate=1)</b>	Not applicable	
<b>VAPOR DENSITY (Air=1)</b>	Not applicable	<b>% VOLATILES BY WEIGHT</b>	<1%	
<b>10. STABILITY &amp; REACTIVITY</b>				
<b>REACTIVITY</b>	Stable under normal temperatures and pressures.			
<b>CONDITIONS TO AVOID</b>	Avoid heat or sources of ignition.			
<b>INCOMPATIBILITY</b>	Avoid contact with strong acids and bases.			
<b>HAZARDOUS DECOMPOSITION</b>	Decomposition may release carbon monoxide and carbon dioxide.			
<b>HAZARDOUS POLYMERIZATION</b>	Hazardous polymerization does not occur.			
<b>11. TOXICOLOGICAL INFORMATION</b>				
<b>ACUTE ORAL EFFECTS</b>				
LD50 (oral, rat) - 1400 mg/kg.				
<b>ACUTE SKIN EFFECTS</b>				
LD50 (dermal, rabbit) - 2010 mg/kg., Slight irritation (rabbit).				
<b>ACUTE EYE EFFECTS</b>				
Essentially non-irritating.				
<b>ACUTE INHALATION EFFECTS</b>				
LC50 (rat,4 hr) - 2.31 mg/l.				
<b>SUBCHRONIC EFFECTS AND OTHER STUDIES</b>				
No data				
<b>12. ECOLOGICAL INFORMATION</b>				
<b>ECOTOXICITY</b>	This product is toxic to birds, fish, aquatic invertebrates and mammals. Data on the active ingredient, methomyl, is as follows: LC50 (Lepomis macrochirus, 96 hr flow-through) - 370-480 ug/l EC50 (Daphnia magna, 48 hr flow-through) - 7.6-31.7 ug/l			
<b>ENVIRONMENTAL FATE</b>	This product may cause adverse environmental impact. Avoid contamination of streams and sewers.			
<b>13. DISPOSAL INFORMATION</b>				
<b>RCRA HAZARDOUS WASTE</b>	This product is not a RCRA hazardous waste by definition.			
<b>WASTE DISPOSAL PROCEDURE</b>	The user of this material has the responsibility to dispose of unused material, residues, and containers in compliance with all Federal, State, and Local Regulations			
<b>14. TRANSPORTATION INFORMATION</b>				
<b>DOT, IATA, IMDG</b>				
This product does not meet the definition of any hazard class and therefore is not subject to DOT, IATA, and IMDG Regulations.				
<b>15. REGULATORY INFORMATION</b>				
<b>CERCLA SECTION 103 (40CFR302.4)</b>				
This product contains the following toxic chemicals that require notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the Reportable Quantities (RQ).				
<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>%</u>	<u>RQ (lbs)</u>	
Methomyl	16752-77-5	1	100	
<b>SARA SECTION 302 (40CFR355.30), SARA SECTION 304 (40CFR355.40)</b>				
This product contains the following chemicals that require emergency planning based on Threshold Planning Quantities (TPQ) or release reporting based on Reportable Quantities (RQ).				
<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>%</u>	<u>TPQ (lbs)</u>	<u>RQ (lbs)</u>
Methomyl	16752-77-5	1	500	100
<b>SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21)</b>				
ACUTE	CHRONIC	FIRE	REACTIVE	PRESSURE
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>SARA SECTION 313 (40CFR372.65)</b>				
This product does not contain any chemicals subject to the reporting requirements of the Emergency Planning and Community Right-to-Know Act of 1986.				

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<b>CHEMICAL INVENTORIES</b> The ingredients of this product are all on the following Chemical Substance Inventories, are exempt from the Inventories, or are otherwise compliant with inventory requirements of the governing agency.						
TSCA <input checked="" type="checkbox"/> U.S.	EINECS <input checked="" type="checkbox"/> Europe	DSL/NDL <input checked="" type="checkbox"/> Canada	AICS <input checked="" type="checkbox"/> Australia	ECL <input checked="" type="checkbox"/> Korea	MITI, ENCS <input type="checkbox"/> Japan	PICCS <input type="checkbox"/> Philippines
IECS <input type="checkbox"/> China						

**CALIFORNIA PROPOSITION 65**  
 This product does not contain any substances that are currently on the list of Known Carcinogens and Reproductive Toxins, at levels which would require a warning under the statute.

**STATE RIGHT-TO-KNOW**  
 This product is regulated by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is exempt from State Right-to-Know labeling requirements when labeled with an approved EPA label.  
 EPA Registration No. 53871-3

**16. OTHER**

**REVISIONS**      Prepared by: Environmental and Regulatory Affairs Dept.  
**This MSDS has been revised in the following sections: (revisions indicated in left border)**  
 Revised format, revisions throughout MSDS

**ABBREVIATIONS**  
 PNOG - Particulates not otherwise classified      PNOR - Particulates not otherwise regulated  
 STEL - Short-term exposure limit      TLV - Threshold limit value      TWA - Time-weighted average

HMIS RATING				NFPA RATING		
HEALTH	FLAMMABILITY	REACTIVITY	PERSONAL PROTECTION	HEALTH	FLAMMABILITY	REACTIVITY
1	1	0	F	1	1	0

*The information contained in this MSDS is believed to be accurate and reliable as of issue date, but no representation, guarantee, or warranty, express or implied is made to the accuracy, reliability, or completeness of the information. It is provided for the purpose of complying with hazard communication regulations. It is not intended as performance information or specifications for the product. It is the user's responsibility to determine the suitability of the product for his own use. Troy Biosciences does not assume legal responsibility for reliance on information herein.*