

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupation Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY KNOCK-OUT FOGGING INSECT KILLER Part Number: 120230	DOT SHIPPING INFORMATION: DOT Hazard Class ORM-D
---	---

Section I

Manufactured For: Beaver Research Company	Emergency Telephone Number 1-800-255-3924 (Chem-Tel)
Address (Number, Street, City, State, and ZIP Code) 3700 E. Kilgore Road, Portage, MI 49002	Telephone Number For Information 269-382-0133
HMIS RATINGS: Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: B	Date Prepared 12/22/00
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Isobutane	75-28-5	800ppm	800ppm		
Propane	74-98-6	1000ppm	Asphyxiant		
*Piperonyl butoxide	51-03-6	Not est.	Not est.		1.5
Pyrethrins	8003-34-7	Not est.	Not est.		0.3

*This product contains Piperonyl butoxide which is listed and may require reporting under SARA Title III Sec. 313 if used over the threshold reporting quantity. This information must be included in all MSDS's that are copied and distributed for this material.

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

Section III - Physical/Chemical Characteristics

Boiling Point	212°F	Specific Gravity (H ₂ O = 1) Concentrate @ 70°F	0.98
Pressure (psig. @ 70°F)	60 ± 5	Melting Point	No Data
Vapor Density (AIR = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	No Data
Total VOC:			
Solubility in Water	Dispersible	pH	7.0 ± 0.5
Appearance and Odor	Opaque, light yellow liquid with a cherry blossom fragrance in an aerosol can.		

Section IV - Fire and Explosion Hazard Data

USA Flame Projection Test (ASTM D-3065) 0", no flashback	Flammable Limits	No Data	LEL	No Data	UEL	No Data
--	------------------	---------	-----	---------	-----	---------

Extinguishing Media

Not usually necessary as this product does not readily support combustion. Use extinguishing agent appropriate for fire's fuel source (i.e. carbon dioxide, dry chemical, foam, fog, etc.).

Special Fire Fighting Procedures

Use water spray to keep containers cool and vapors down. Do not allow runoff to enter sewers or public watercourses. Wear self-contained breathing apparatus in chemical fires.

Unusual Fire and Explosion Hazards

Aerosol container (pressurized) may burst if heated over 130°F.

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	Extreme heat, direct sunlight.
	Stable		

Incompatibility (Materials to Avoid)

Strong oxidizing agents.

Hazardous Decomposition or Byproducts

Carbon dioxide, carbon monoxide, smoke, soot and various organic oxidation by-products.

Hazardous	May Occur	Conditions to Avoid	None known.
	Polymerization		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

Caution. Harmful if swallowed or absorbed through skin. Harmful if inhaled. May cause eye and skin irritation. Contents under pressure. Follow good chemical hygiene practices to avoid these hazards.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
None known.	No	No	No

Signs and Symptoms of Exposure

Redness, drying or cracking skin. Redness and irritation of eyes. Irritation of nose and throat are possible.

Medical Conditions Generally Aggravated by Exposure

Pre-existing skin and lung disorders may be adversely affected from overexposures. Follow good chemical hygiene practices.

Emergency and First Aid Procedure

Eyes: In case of contact, immediately flush eyes with plenty of water (at least 15 minutes). Obtain medical attention if irritation persists. **Ingestion:** Contact a physician or poison control center immediately. **Inhalation:** Get to fresh air. If breathing has stopped, qualified personnel should administer artificial respiration. **Skin:** In case of contact, immediately flush skin with plenty of water (at least 15 minutes). Obtain medical attention if irritation persists.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Caution, slip hazard. Wipe up small spills promptly with a towel or other absorbant material. For large spills, isolate traffic and ventilate area. Eliminate all ignition sources. Wear protective gear as necessary. Dike to prevent spread. Pick up on an absorbant material and put in a suitable container for proper disposal.

Waste Disposal Method

Consult local, state and federal regulations. Do not incinerate (or puncture container). Wrap container and put in trash collection, then discard container if allowed by applicable statutes. Offer empty container for recycling if resources are available.

Precautions to be Taken in Handling and Storage

Do not swallow. Wash thoroughly after handling. Avoid, contact with skin and eyes (and clothing). Avoid breathing vapors or spray mist. Vacate premises after treatment and ventilate before reoccupying. Do not apply directly to food. See special label instructions for use around food and food processing equipment. Remove pets and birds, and cover fish aquariums before spraying. To avoid staining fabrics or surfaces, do not spray at close range. Vacate premises after treatment and ventilate before reoccupying.

Other Precautions

Follow label directions carefully. Keep out of reach of children. Do not deliberately concentrate and inhale vapors. Direct spray away from face. Replace cap when not in use. Do not use around ignition sources such as heat, sparks, open flame, etc. Do not puncture or incinerate container. Do not smoke while using. Contents under pressure. Do not store near heat or open flame. Store in a cool (under 130°F) dry location away from heat, sparks, open flame and direct sunlight. Exposures to temperatures above 130°F may cause bursting.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Not usually necessary. Use with adequate ventilation. If PELs or TLVs are exceeded (see Section II), use an approved NIOSH/MSHA respirator. Follow label instructions carefully.

Ventilation	Local Exhaust	Not usually needed	Special	None
	Mechanical(General)	Yes	Other	None

Protective Gloves	Eye Protection
Yes, impervious if contact is possible.	Yes, approved safety glasses (ANSI Z87) or goggles.

Other Protective Clothing or Equipment

Not usually necessary. If direct contact is possible, wear apron, boots, face shield, etc., as required.

Work/Hygienic Practices

Normal. Wash thoroughly before eating, drinking, smoking, using restrooms, etc.

While the information and recommendations set forth herein are believed to be accurate as of the date hereon, Beaver Research Company makes no warranty with respect thereto and disclaims all liability from reliance thereon.