

# MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor as "Essentially Similar" to Form OSHA-20)

I. PRODUCT IDENTIFICATION			
CHEMICAL NAME AND SYNONYMS		Bendiocarb: (2,2-dimethyl-1, 3-benzodioxol-4-ol methylcarbamate); pyrethrins; piperonyl butoxide	REGULAR TELEPHONE NO.: 302-575-2000 EMERGENCY TELEPHONE NO.: 800-424-9300
CHEMICAL FAMILY		carbamate; pyrethrins; piperonyl butoxide	CAS NO.
FORMULA		N.A.	MOLECULAR WEIGHT N. A.
TRADE NAME AND SYNONYMS		FICAM PLUS SYNERGIZED PYRETHRINS	
II. HAZARDOUS INGREDIENTS			
MATERIAL		%	TLVA-TWA VALUES ADOPTED BY ACGIH
bendiocarb		29.45	
pyrethrins		3.06	
piperonyl butoxide, technical		7.66	
petroleum distillate		12.25	
III. PHYSICAL DATA (VARIOUS FORMULATIONS)			
BOILING POINT, 760 mm Hg	N. A.	FREEZING POINT	N. A.
VAPOR PRESSURE @	N. A.	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	N. A.
VAPOR DENSITY (AIR = 1)	N. A.	PERCENT VOLATILE BY VOLUME (%)	N. A.
SOLUBILITY IN WATER, % BY WEIGHT @	N. A.	EVAPORATION RATE (BUTYL ACETATE = 1)	N. A.
APPEARANCE AND ODOR:	Light tan powder; mild odor.	pH	N. A.
IV. FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (TEST METHOD)		AUTOIGNITION TEMPERATURE	
Does not flash			
FLAMMABLE LIMITS IN AIR PERCENT BY VOLUME	LOWER	UPPER	
EXTINGUISHING MEDIA: Foam, CO <sub>2</sub> , or chemical extinguisher			
SPECIAL FIRE-FIGHTING PROCEDURES: Avoid inhalation of fumes or dust. Wear self-contained breathing apparatus. Remove from area of fire at first opportunity.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: Bendiocarb gives off methyl isocyanate fumes when heated.			
NOTES: NA = NOT APPLICABLE			

### V. HEALTH HAZARD DATA

**THRESHOLD LIMIT VALUE:** Not established, AOLD<sub>50</sub> (Rat): 174 mg/kg; ADLD<sub>50</sub> (rat): >3000 mg/kg.

**EFFECTS OF OVEREXPOSURE:** Carbamate response: constriction of pupils, salivation, muscular incoordination, sweating, vomiting

**EMERGENCY AND FIRST-AID PROCEDURES:** **If swallowed** — Call a physician or poison control center. Give 1 or 2 glasses of water and induce vomiting by touching finger to back of throat or administer Ipecac Syrup USP. Adult dose 20 ml, children 10 ml. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. Get medical attention.

**If inhaled** — Keep patient strictly at rest and transfer to hospital immediately to get medical attention.

**If on the skin** — Wash with soap and warm water for 15 minutes.

**If in eyes** — Flush with plenty of water for 15 minutes. Get medical attention.

**Note For Physician:** Contains anticholinesterase carbamate insecticide. In cases of overexposure, atropine sulfate — 2 mg. (equivalent to 1/30 grain adult dose) should be given and repeated as necessary until fully atropinized. Pralidoxime (P2S) is ineffective; morphine contraindicated. Control convulsions with Diozepam 10-20 mg. intravenously.

### VI. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID:
UNSTABLE		
STABLE	x	

INCOMPATIBILITY (MATERIALS TO AVOID):

HAZARDOUS DECOMPOSITION PRODUCTS: Bendiocarb gives off methyl isocyanate fumes when heated.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID:
	WILL NOT OCCUR	x	

### VII. SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Carefully sweep up, avoid inhalation of dust and skin contamination. Place in suitable container and seal. Area can be washed with water to remove last traces of FICAM PLUS but keep out of watercourses.

**IX. SPECIAL PRECAUTIONS:****PRECAUTIONARY LABELING:****WARNING**

May be fatal if swallowed, absorbed through skin or inhaled. Repeated exposure may, without symptoms, be increasingly hazardous. Do not breathe vapors or spray mist. May cause eye irritation.

**ENVIRONMENTAL HAZARDS**

- This product is toxic to fish, birds, and other wildlife. Do not apply directly to any body of water.
- Do not use on food crops.
- Do not apply where runoff is likely to occur.
- Do not apply when weather conditions favor drift from areas treated.
- Do not contaminate water by cleaning of equipment or disposal of wastes.
- Apply this product only as specified on this label.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use, pour, or store near heat or open flames. In case of spillage, cover with an absorbent such as soda ash, lime, clay, or sawdust. Sweep up and dispose of according to directions under **WASTE DISPOSAL**. Wash area thoroughly with strong lye solution.

**OTHER HANDLING AND STORAGE CONDITIONS:** Not for use or storage in or around the home environment. Store in shade. Keep away from open flames. Do not heat above 130°F. Keep containers closed when not in use.