MICRO FLO CO P.O. BOX 77209 MEMPHIS, TN 3	99 Transportation or Spill, call CHEMTREC: 1 (800) 424-930								
Product No.: 58A	.096	Bifenthrin 7.9%		MICRO F	LO COMPANY				
Date Prepared: 9/*	15/2003 Date Revise	d: 10/7/2003							
		SECTION							
Trade Name: E	ifenthrin 7.9%								
Chemical Name:	: (2-methyl[1,1'-bipho dimethylcyclopropa	enyl]-3-yl)methyl-3-(2- anecarboxylate	chloro-3,3,3-	trifluoro-1-propenyl)-2,2-				
Synonyms: Bit	fenthrin		Formula	a: C23 H22 CI F3 O2	2				
Chemical Family	/: pyrethroid		Mol Wt:	422.87					
SECTION II - INGREDIENTS									
CC	MPONENT		%	PEL/TLV - SOU	RCE				
Bifenthrin technica	l *	82657-04-3 7	'.9 Not e	established					
Other ingredients		9	2.1 Not e	established					
SARA Title III Se	ection 313: *Listed								
		TION III - PHYSI							
	NG POINT@760mm Hg		pH:	6.4 (1% solution)					
	JRE mmHg @ 20°C:								
	ITY OR BULK DENSIT	Y: 1.017 g/cm3							
SOLUBILITY IN									
APPEARANCE:	Liquid - off white		R: Sweetish	INTENSITY:	N/A				
		V - FIRE AND EX	1						
FLASH POINT (TE	•)0 °F	_	AUTOIGNITION TEMP: N/A					
FLAMMABILITY LIMITS IN AIR (% BY VOL): LOWER: N/A UPPER: N/A									
NFPA 704 HAZAR									
HEALTH: 2	FLAMMABLE: 1		Y: U	OTHER: N/A					
	GE CLASSIFICATION:	IIIB	avtinguiahi	an madia					
EXTINGUISHING Use water fog, foam, CO(2), or dry chemical extinguishing media. MEDIUM									
SPECIAL FIREFIGHTING PROCEDURES	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.								
UNUSUAL FIRE _EXPLOSION HAZARDS	None known. In a fire, may decompose to form toxic by-products.								
		SELECT ACRON	M KEY						
N//	A - Not available; N/D -	Not determined; N/R	- Not rated;	N/E - Not establishe	ed				

EMERGENCY TELEPHONE NUMBERS:

MATERIAL SAFETY DATA SHEET

SECTION V - HEALTH DATA

TOXICOLOGICAL TEST DATA:

Data for a similar product: Rat, Oral LD50 = 632 mg/kg Rat, inhalation LC50 (1 hr) = 11.58 mg/L Rabbit, Dermal LD50 > 2000 mg/kg Rabbit, Skin Irritation - Nonirritating Rabbit, Eye Irritation - Moderately irritating Guinea pig, Dermal Sensitizer - Potential sensitizer

Information on Bifenthrin:

Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information,

there is no indication that the substance is mutagenic.

In long-term animal studies in which the substance was given in high concentrations by feed, a possible carcinogenic effect was observed.

The substance is not considered to pose a carcinogenic risk at low human exposure levels.

In animal studies, the substance showed a developmental toxic effect

in high doses which were maternally toxic.

The results of animal studies gave no indication of a fertility impairing effect.

OSHA, NTP, or IARC Carcinogen: No

EFFECTS OF OVEREXPOSURE:

See Product Label and Directions For Use for additional precautionary statements.

CAUTION: Keep out of reach of children.

Harmful if swallowed, inhaled or absorbed through skin.

Causes moderate eye irritation.

Avoid breathing vapor or spray mist.

In animal studies, large doses of bifenthrin caused convulsions, tremors and bloody nasal discharge.

Contact with the skin may produce distressing paresthesias that rarely persist more than 24 hours. Severe exposure may cause acute neurotoxicity.

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

FIRST AID PROCEDURES If swallowed: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention If on skin or clothing: 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 in eyes: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. Hazards: Contact with the skin may produce distressing paresthesias that rarely persist more than 24 hours. Note to physician: Severe exposure may cause acute neurotoxicity. Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. If large amounts have been ingested and patient is seen within an hour of ingestion, gastrointestinal decontamination should be considered. Note: Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Avoid all sources of ignition: heat, sparks, open flame.

CHEMICAL INCOMPATIBILITY: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide, HCI, HF.

HAZARDOUS POLYMERIZATION: Does not occur

CONDITIONS TO AVOID: None known.

CORROSIVE TO METAL: Not anticipated

OXIDIZER: N/A

SECTION VII - PERSONAL PROTECTION

PESTICIDE APPLICATORS & 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.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory Protection:

Respiratory protection equipment must be approved for use with pesticides.

Hand Protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes

of permeation time according to EN 374): E.g. nitrile rubber (0.4mm), chloroprene rubber (0.5mm), polyvinylchloride (0.7mm) and other.

Eye Protection:

Tightly fitting safety goggles (splash goggles) (EN 166).

Body Protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit.

(according to DIN-EN 465).

SECTION VIII - ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA

Information on Bifenthrin:

Rainbow Trout, 96h LC50 = 0.00015 mg/L Bluegill Sunfish, 96h LC50 = 0.00035 mg/L Daphnia magna, 48h LC50 = 0.00016 mg/L Bobwhite Quail, Oral LD50 = 1800 mg/kg Mallard Duck, Oral LD50 = 2150 mg/kg Honeybee Contact LD50 = 0.0146 ug/bee

Product No.: 58A096		Bifenthrin 7.9%			MICRO FLO COMPANY		
SARA 311/31	2 REPORTING						
FIRE: N	PRESSURE: N	REACTIVITY: N	ACUTE: Y	CHRONIC	:Y	TPQ(lbs): 10,000	
SPILL AND L							
unprotecte as specifie Pick up wit	arge scale spillage of d persons. In case of d on the label. h inert absorbent mate S SUBSTANCE SUPE	small scale spillag erial (e.g. clay or d	e of this substan	ice/product, wea	ar person suitable c	al protective equipment	
WASTE DISP	OSAL METHOD:						
If pesticide Environme guidance.	vastes are regulated. wastes cannot be dis ntal Control Agency o ct is not regulated by	r the Hazardous W					
HAZARDOUS	WASTE 40CFR261:	Νο	HAZAF	RDOUS WASTE		R: None	
CONTAINER	DISPOSAL:						
	nsed facility. Recomm					ns. Incinerate or dispos orized use of used	
	SECTION IX	C-SHIPPING	DATA - PA	ACKAGE A	ND BL	JLK	
D.O.T. PROPER SHIPPING NAME (49CFR172.101-102): See below			02):	HAZARDOUS SUBSTANCE (49CFR CERCLA LIST): No RQ(Ibs): None			
D.O.T. HAZAI	RD CLASSIFICATION	I (CFR 172.101-10	02):				
PRIMARY				SECONDARY			
See below							
	REG		REQUIRED (C	QUIRED (CFR172.504): (4		POISON CONSTITUENT 49CFR172.203(K)):	
See below			See below		See b	elow	
BILL OF LAD	ING DESCRIPTION						
This product Insecticides,	ING DESCRIPTION is not regulated by th NOIBN. For shipmer 9%), 9, UN 3082, PG	nt by water, descri					

SECTION X - ADDITIONAL INFORMATION

Bifenthrin 7.9%

EPA Reg. No. See the FIFRA label

KEEP OUT OF REACH OF CHILDREN

CAUTION

Complete Label and Directions For Use are attached to the product.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Micro Flo Company

P.O. Box 772099 Memphis, TN 38117 1 (800) 451-8461

DISCLAIMER

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