

Material Safety Data Sheet

Effective Date: 01-OCT-2003  
Product: EMPOWER 2

I. IDENTIFICATION

Chemical Name: Bifenthrin  
Chemical Family: Pyrethroid Pesticide  
Formula: Not applicable, formulated mixture.  
Synonyms: None  
CAS Number: 82657-04-3 (Bifenthrin)  
EPA Number: 5905-548

II. PHYSICAL DATA

Boiling Point: Not applicable  
Freezing Point: Not applicable  
Spec Gravity: Density 35-40 lbs/cu. ft.  
Vapor Pressure: Not applicable  
Vapor Density: Not applicable  
Solubility: Not determined  
Volatiles: Not determined  
Evaporation: Not applicable  
Melting Point: Not determined  
Appearance: Grey to tan, free flowing granules, faint odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Bifenthrin	82657-04-3	1.150	N/E	Mild eye irritant
Indole-3-Butyric Acid	133-32-4	0.001	N/E	Mild skin irritant
Proprietary Blend of Ammonia Carboxylates and Inert Ingredients		98.849	N/E	Skin & eye irritant

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Slightly combustible solid.  
Autoignition Temp: Not determined  
Flammable Limit: Not determined  
Extinguishing Media: Use foam, carbon dioxide or dry chemical. Soft stream water fog only if necessary. Prevent runoff of any fire fighting waters.  
Special Fire Fight Proc: Wear full protective clothing and positive-pressure self-contained breathing apparatus. Stay upwind and avoid breathing smoke, gases or vapors.

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Fire and Expl Hazard: Slightly combustible solid - may support  
combustion at elevated temperatures.  
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V. HEALTH HAZARD  
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Carcinogen Information: Silica quarts (IARC)

ACUTE EFFECTS OF OVER EXPOSURE  
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Swallowing: Acute Oral LD50 (rat) = 7,431 mg/kg. Very low  
oral toxicity.  
Skin Absorption: Acute Dermal LD50 (rabbit) > 5,000 mg/kg. Very  
low dermal toxicity.  
Inhalation: Acute Inhalation LC50 (rat) >5.73 mg/L/4 hr.  
Low inhalation toxicity.  
Skin contact: Exposure may occasionally produce skin  
sensations such as rashes, numbing, burning or  
tingling. Material is not a skin sensitizer.  
Sensations are reversible and usually subside  
within 12 hours.  
Eye Contact: May cause mild eye irritation with direct  
contact.  
Chronic Effects: No data currently available.  
Other Hazard: None currently known.

EMERGENCY AND FIRST AID PROCEDURES  
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Swallowing: Rinse mouth out with water. Dilute by giving 1  
to 2 glasses water to drink. Do not induce  
vomiting. Seek immediate medical attention.  
Skin: Wash affected area with plenty of soap and  
water. Launder contaminated clothing separately  
before reuse. Seek medical attention if  
irritation persists.  
Inhalation: Remove victim to fresh air. If breathing  
difficulty or discomfort occurs, seek medical  
attention.  
Eyes: Flush eyes with water for at least 15 minutes,  
holding eyelids open. If irritation persists,  
seek medical attention.  
Notes to Physician: This product has low oral, dermal and  
inhalation toxicity. May be minimally  
irritating to the eyes and essentially non-  
irritating to the skin. Treatment is removal  
from exposure followed by symptomatic and  
supportive care.

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VI. REACTIVITY  
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Stability: Stable  
Conditions to Avoid: Excessive heat and fire.  
Polymerization: Will Not Occur  
Conditions to Avoid: None currently known.  
Incompatibility material: None currently known.  
Hazardous Combustion: May produce carbon monoxide, carbon dioxide,  
hydrogen chloride and hydrogen fluoride under  
fire conditions.

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VII. SPILL OR LEAK PROCEDURES  
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Spill or Leak Proc: Wear appropriate protective equipment as  
detailed in Section VIII. For dry spills, use a  
wet sweeping compound or water to prevent  
formation of dust. If water is used, prevent  
runoff or dispersion of excess liquid by diking  
and absorbing with clay, sand or soil. Vacuum,  
shovel or pump all waste material and  
absorbents into salvage drums. Properly label  
for disposal.  
Waste Disposal Method: This material must be disposed of according to  
Federal, State or Local procedures under the  
Resource Conservation and Recovery Act.

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VIII. SPECIAL PROTECTION INFORMATION  
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Respiration: Use NIOSH/MSHA approved pesticide respirator  
for dust exposure.  
Ventilation: General (Mechanical) room ventilation should be  
sufficient.  
Gloves: Impervious (neoprene, nitrile rubber, PVC).  
Eyes: Chemical workers' goggles or face shield.  
Other: Long sleeve shirt and long pants, shoes plus  
socks, eyewash station and emergency shower.

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IX. SPECIAL PRECAUTIONS  
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Special precaution: Store in a cool, dry, well-ventilated place. Do  
not use or store near heat, open flame or hot  
surfaces. Store in original containers. Keep  
out of reach of children. Do not store with  
food, feed or other material to be used or

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consumed by humans or animals.  
Other precaution: Keep material out of water supplies, lakes,  
streams or ponds.

X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT in non-bulk packaging.  
Hazard Class: None  
Identification No: None  
Labels Required: None required  
Placarding: None  
Freight Class: Insecticides, N.O.I., Other than Poison (NMFC  
Item 102120, Class 60)  
Chemical Name Equivalent R.Q.  
Not applicable Not applicable

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2 Fire: 1 Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y Delayed (Chronic) Health: Y  
Sudden Release of pressure: N Fire: N  
Reactive: N

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
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