

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.

V. HEALTH HAZARD

Carcinogen Information: Silica quarts (IARC)

ACUTE EFFECTS OF OVER EXPOSURE

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

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

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.

VII. SPILL OR LEAK PROCEDURES

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.

VIII. SPECIAL PROTECTION INFORMATION

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.

IX. SPECIAL PRECAUTIONS

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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