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

IDENTITY (As Used on Label and List)

Bonide Mancozeb Flowable w/ Zinc

ID No. 7071564 Date: November 12, 1998

Section I

Bonide Products, Inc. (800) 424-9300 2 Wurz Ave. (315) 736-8231

Yorkville, NY 13495

Section II - Hazardous Ingredients/Identity

Hazardous Components (Specific Chemical Identity: Common Name(s) OSHA PEL ACGIH TLV Other Limits % (Optional)
Ethylene-bis-dithiocarbamate manganese salt 1 mg/M3

Section III - Physical/Chemical Ingredients

BOILING POINT: NA VAPOR PRESSURE (mm Hg): NA

VAPOR DENSITY (Air=1): NA SPECIFIC GRAVITY: NA

SOLUBILITY IN WATER: NA % VOLATILE BY VOLUME: NA

EVAPORATION RATE: NA MELTING POINT: NA

APPEARANCE AND ODOR: Tan powder (dust), musty odor

Section IV - Fire and Explosion Data

FLASHPOINT: NA

LEL: ----- UEL: -----

EXTINGUISHING MEDIA: Water spray, Water fog, Dry Chemical, CO2

FIRE FIGHTING INSTRUCTIONS: Wear approved self-contained breathing equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic and flammable gases may be evolved when material is

heated to 80 C (176 F).

Section V - Reactivity Data

STABILITY: Stable

CONDITIONS TO AVOID: Avoid acids and oxidizing heat agents.

CONDITIONS TO AVOID: Keep dry and avoid excessive

HAZARDOUS POLYMERIZATION: May occur

Section VI - Health Hazard Information

THRESHOLD LIMIT VALUE OR LD50LC50: 1 mg/M3 for Ethylene bis dithiocarbamate

EFFECTS OF OVEREXPOSURE: Exposure to dust will irritate eyes, nose and throat. Repeated or prolonged contact will cause skin irritation.

EMERGENCY AND FIRST AID PROCEDURES: INHALATION: Move subject to fresh air, maintain breathing.

EYES: Flush eyes with water for 15 minutes. Get medical attention.

SKIN: Wash exposed skin with soap and water. If irritation develops, get medical attention.

Section VII - Precautions for Safe Handling/Use

RESPIRATORY PROTECTION (Specify type): Wilson Agritox #2 respirator with R21 Cartridge and R15 filter

VENTILATION: LOCAL EXHAUST: Preferred MECHANICAL (General): Acceptable PROTECTIVE GLOVES: Impervious gloves EYE PROTECTION: Safety glasses with sideshield

PROTECTIVE GLOVES: Impervious gloves EYE PROTECTION: Safety glasses with sides OTHER PROTECTION EOUIPMENT: Wear washable work clothes to be washed before reuse.

HANDLING AND STORAGE: Keep away from fire, sparks and hot surfaces. Do not contaminate food,

feed, domestic water, ponds, streams or sewers.

OTHER PRECAUTIONS: Keep out of reach of children. Wash thoroughly before eating, drinking or smoking.

Section VIII - Environmental and Disposal Information

SPILL OR LEAK PROCEDURES: Wearing approved respirator, sweep and shovel product into containers

for use or disposal.

WASTE DISPOSAL METHOD: Dispose of waste in an approved chemical disposal site.

KEEP OUT OF REACH OF CHILDREN

ABBREVIATION KEY

N/A: NOT AVAILABLE OR APPLICABLE N/E: NOT ESTABLISHED

TLV: THRESHOLD LIMIT VALUE
TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY
STEL: SHORT TERM EXPOSURE LIMIT
D.O.T.: DEPARTMENT OF TRANSPORTATION

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