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MICRO-TAC LABEL AND MSDS

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Micro-Tac™ Sticker Agent

For Use with Hercon® Disrupt Micro-Flake® Mating Disruption Products

Principal Functioning Agents:

Acrylic copolymer

58.6%

Constituents ineffective as Sticker

41.4%

All ingredients are exempt from the requirements of a tolerance under 40 CFR 180

WA Reg. No. 8730-05001

Net contents 1.0, 2.5, 5, 30, 40, or 55 gallons

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID STATEMENTS

IF SWALLOWED:

Call a poison control center or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to by a poison control center or doctor.

Do not give anything to an unconscious person.

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye

Call a poison control center or doctor immediately for treatment advice

IF ON SKIN:

Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor immediately for treatment advice.

IF INHALED:

Move person to fresh air.

If a person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Call a poison control center or doctor immediately for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

You may also contact the National Pesticide Telecommunications Network at 1-800-858-7378 for emergency medical treatment information.

Hours of operation are seven days a week 6:30 am to 4:30 pm PST.

Personal Protective Equipment (PPE) - Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves and protective eyewear (goggles or face shield).

DIRECTIONS FOR USE

Hercon® Micro-Tac™ is a proprietary product that functions as a sticker. Micro-Tac™ is intended for use with Hercon® Disrupt Micro-Flake® Mating Disruptant products that are labeled for agricultural, forestry, non-cropland, ornamental, right-of-way and turf uses. Not for aquatic use.

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Hercon® Micro-Tac™ can be used without dilution or in a recommended tank-mix with a thickening agent such as Micro-Thic™, depending on approved application equipment used.

Recommended Use Rates:

For ground application: Use approved equipment only when applying Hercon® Disrupt Micro-Flake® Mating Disruption products with Micro-Tac™. Use 2-48 oz of Micro-Tac™ per acre.

For Aerial Application: Use approved equipment only when applying Hercon® Disrupt Micro-Flake® Mating Disruption with Micro-Tac™. Use 1-24 oz of Micro-Tac™ per acre.

Environmental Hazards:

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Storage and Disposal:

Store in original container only. Do not contaminate water, food or feed by storage or disposal.

Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading. This product is freeze sensitive.

Storage conditions are between 50-90 degrees F (10-32 degrees C).

After prolonged storage (greater than 6 months) product tends to settle and may require agitation to re-disperse.

Manufactured by: Aberdeen Road Company d/b/a Hercon Environmental

Aberdeen Rd

Emigsville, PA 17318 USA

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MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

HERCON MICRO-TAC™

Spray Adjuvant: Sticker

MSDS Number

100777

February 27, 2006

COMPANY:

ABERDEEN ROAD COMPANY d/b/a HERCON ENVIRONMENTAL

P.O. Box 435

Aberdeen Road

Emigsville, PA 17318 USA

For an emergency or more information call 717-764-1192

2. COMPOSITION AND INFORMATION ON INGREDIENTS ACTIVE

COMMON NAME: *Multipolymer Emulsion*

FORMULA

Components:

CAS No.

Concentration range

acrylic copolymer

$\geq 53.0 - \leq 59.0\%$

water

7732-18-5

$\geq 38.0 - \leq 43\%$

vinyl acetate

108-05-4

$< 0.5\%$

Polyvinyl polymer

$< 10\%$

Isopropyl alcohol

67-63-0

$< 0.01\%$

3. PRODUCT HAZARD INFORMATION

EMERGENCY OVERVIEW

Form:

viscous

Color:

white

Odor

acrid

WARNING STATEMENTS

No significant hazards associated with this material

POTENTIAL HEALTH EFFECTS

Likely routes of exposure:

Eye and skin contact , inhalation

Eye contact:

Direct eye contact with liquid may cause irritation

Skin contact:

Prolonged or repeated contact may cause irritation

No more than slightly toxic if absorbed

Inhalation

May be harmful if inhaled

Swallowing:

May be harmful if swallowed. Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information

4. FIRST AID MEASURES

IF SWALLOWED:

Call a poison control center or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow

Do not induce vomiting unless told to by a poison control center or doctor.

Do not give anything to an unconscious person

IF IN EYES:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.

Call a poison control center or doctor immediately for treatment advice

IF ON SKIN:

Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor immediately for treatment advice.

IF INHALED:

Move person to fresh air.

If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Call a poison control center or doctor immediately for further treatment advice.

5. FIRE FIGHTING MEASURES

Flash point:

Non flammable aqueous solution

Hazardous products of combustion

Carbon dioxide, carbon monoxide (CO), smoke, soot

Extinguishing Media:

Dry chemical, foam, water fog or spray, *carbon dioxide*

Unusual Fire and Explosion Hazards:

None known

Fire fighting equipment:

If involved in fire, use air-supplied equipment. Do not inhale fumes. Wear full protective equipment and NIOSH approved pressure demand, self contained breathing apparatus .

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protection recommended in section 8

Environmental precautions

Keep out of drains and water courses

Method for clean-up:

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush spill area with water.

Refer to Section 13 for disposal information and Section 14 and 15 for reportable quantity information.

7. HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing. Emptied containers retain vapor and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. The reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

Storage

Temperature:

10-32°C

General:

Freeze sensitive.

After prolonged storage (greater than 6 months) products tends to settle and may require agitation to redisperse.

Stable under normal conditions of handling and storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

Hand protection:

Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application.

Body Protections:

Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wash contaminated skin thoroughly after handling.

Respiratory Protection

This material is not likely to present an airborne exposure concern under normal conditions of use. Avoid breathing vapor or mist. Use approved respiratory protection equipment when airborne exposure limits are exceeded.

Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer

Ventilation

Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. If practical, use local mechanical exhaust ventilation at sources of air contamination such as processing equipment.

Airborne exposure limits:

(ml/m³ = ppm)

No specific occupational exposure limit has been established for Micro-Tac™

Vinyl acetate

ACGIH TLV: 10 ml/m³; ; 8-hr TWA

ACGIH TLV: 15 ml/m³ 15 min STEL

A3: The ACGIH has designated this component as an "A3" substance thereby including it among substances that are confirmed animal carcinogens with unknown relevance to humans.

OSHA PEL: 10 ml/m³; ;8-hr TWA

OSHA PEL : 20 ml/m³ ; ; 15-min STEL

Mexican OEL : 10 ml/m³ ; 30 mg/m³ ; ;8-hr TWA

Mexican OEL: 20 ml/m³ ; 60 mg/m³ ; ; 15-min STEL

Components referred to herein may be regulated by specific Canadian provincial legislation. Please refer to exposure limits legislated for the province in which the substance will be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:

1.01 @ 25°C

pH:

4.5 – 5.5

Boiling point

100°C

Water solubility:

completely miscible

Viscosity

300-700 mPa.s @ 25°C

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Conditions to avoid:

Do not expose to extreme temperatures

Materials to avoid

None known

Hazardous reactions

Hazardous polymerization does not occur

Hazardous decomposition products:None known

11. TOXICOLOGICAL INFORMATION

This product has been tested for toxicity. Results from the formulator of this material sponsored studies or from the available public literature are described below.

Acute animal toxicity data

Oral:

LD50, rat >5,000 mg/kg, Practically nontoxic following oral administration.

Dermal:

LD50, rabbit, >5,000 mg/kg, Practically nontoxic after skin application in animal studies

Eye irritation:

Rabbit, Practically non irritating to eyes (rabbit), 24 h

Skin irritation:

Rabbit, Practically non irritation to skin (rabbit) 4h

Rabbit, Practically non irritating to skin (rabbit) 24h

Skin sensitization

Human experience, These materials demonstrated a potential for cumulative irritation but primary irritation and allergic skin reactions were not observed. Data obtained on similar product.

Mutagenicity:

No genetic effects were observed in standard tests using bacterial and animal cells. Data obtained on similar product.

Components

Data from the formulator of this material studies and/or the available scientific literature on the components of this material which have been identified as hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

or the Canadian Hazardous Products Act are discussed below.

Vinyl acetate

Irritating to eyes, skin and respiratory tract

Can cause blisters

Can cause injury to the eyes

Slightly toxic following oral administration

Practically nontoxic after skin application in animal studies

Slightly toxic based on animal inhalation exposure studies.

No adverse effects noted following repeated oral administration

Repeated inhalation exposure produced changes to the lungs in animal models

This material produced tumors in laboratory animals

Listed as "possibly carcinogenic to humans" (Group 2B) by the International Agency for Research on Cancer (IARC).

No birth defects were noted in rats given ingredient orally during pregnancy

This material impaired fertility of laboratory animals below dose levels toxic to parental animals.

The weight of the evidence indicates that this material is mutagenic in in vitro assays

12. ECOLOGICAL INFORMATION

This product has not been tested for environmental toxicity or biodegradation, but data obtained on similar products are summarized below:

Environmental Toxicity:

Invertebrates

48 h. EC50 Water flea (Daphnia magna) >1000 mg/l
Fish
96 h LC50 Bluegill sunfish (Lepomis macrochirus) >1000 mg/l
96 h LC50 Rainbow trout (Oncorhynchus mykiss) >1000 mg/l

13. DISPOSAL CONSIDERATIONS

US EPA RCRA Status:

This material when discarded is not a hazardous waste as that term is defined by the Resource. Conservation and Recovery Act (RCRA), 40 CFR 261.

Disposal considerations:

Incineration

Recycle

Miscellaneous advice:

Local, state, provincial and national disposal regulations may be more or less stringent.

Consult your attorney or appropriate regulatory officials for information on such disposal. This product should not be dumped, spilled rinsed or washed into sewers or public waterways.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

US DOT

Other:

Not regulated for transport

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Canadian TDG

Other:

Not regulated for transport

15. REGULATORY INFORMATION

All components are in compliance with the following inventories:

US TSCA, Canadian DSL, EU EINECS, Australian AICS, Japanese ENCS, Philippine PICCS, Chinese

Other chemical inventory information:

The polymer contained with this product is exempt from listing in the European Inventory. The monomers used to manufacture this polymer are listed as required, as are all other components of this product.

Canadian WHMIS classification

Not controlled

SARA Hazard Notification:

Hazard Categories under Title III

Not applicable

Rules (40 CFR 370):

Section 302 Extremely Hazardous vinyl acetate

Substances:

Section 313 Toxic Chemical(s)

vinyl acetate

CERCLA Reportable Quantity

5,000 lbs vinyl acetate

For this chemical release of more than the Reported Quantity to the environment in a 24 hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675).

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation. Refer to Section 11 for OSHA/HPA Hazardous Chemical and Section 13 for RCRA classification

16. OTHER INFORMATION

Product use:

Sticker with the Hercon Disrupt Micro-Flake products for orchard and forestry applications.

Suggested NFPA rating

Health

Fire

Reactivity

Additional Information

0

0

Suggested HMIS Rating

1

0

0

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