

12/27/99,MS1050

**RD-20 GREENHOUSE DISINFECTANT
MATERIAL SAFETY DATA SHEET**

Manufacturer's Name & Address

Southern Agricultural Insecticides, Inc.
P O Box 218, Palmetto, Fla. 34220

Phone: 941-722-3285
Chemtrec:800-424-9300

I. PRODUCT NAME RD-20 Greenhouse disinfectant EPA Reg.No.53642-1-829

Chemical Name: See ingredients section II

Chemical Family: Quaternary

II. HAZARDOUS INGREDIENTS nominal % CAS # OSHA TWA ACGIH TLV

Ethyl alcohol (denatured) 2.25% 64-17-5 1000 PPM 1000 PPM

N-Alkyl (C12-C18)-N,N-Dimethyl-N-Benzyl-
Ammonium Chloride 10.00% 68391-01-5 NA NA

Alkyl dimethyl ethylbenzyl-
(C12-C18) ammonium chloride 10.00% 68956-79-6 NA NA

Ingredients are listed in excess of 1%, Carcinogens in excess of 0.1%

Ingredients listed as Carcinogens IARC, NTP, OSHA NONE

III. PHYSICAL/CHEMICAL DATA

Boiling Point Approx. 200⁰ F % Volatile: Approximately 80%

Density 8.2 LB/gal Solubility in water: completely soluble

Appearance and odor: Light amber liquid with sweet soap like odor. Ph 8.5

IV. FIRE AND EXPLOSION DATA

Flash point: NA, Does not flash to boiling

Explosive limits, NA

Extinguishing media: Dry chemical, carbon dioxide, foam, water fog. Class BC, ABC, Fire extinguishers.

Special Fire Fighting Procedures: Self contained positive pressure breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.

Unusual fire and/or explosion hazards: None known

V. REACTIVITY

Stability: Stable

Hazardous polymerization will not occur

Incompatibility (Materials to avoid) Strong oxidizing Agents

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrous oxides and ammoniacal vapors

VI. HEALTH HAZARD DATA (Acute and Chronic)

Product Signal word: Danger

Effects of overexposure/ Emergency and first aid procedures

Signs and symptoms: Prolonged and/or repeated exposure to skin causes irritation. Inhalation of product mist is irritating to nasal passages.

The alcohol portion of mist and/or vapors, which can be inhaled and/or absorbed causes nausea, loss of motor skills and disorientation. Airborne exposure should be controlled to below exposure limits given in section II

Chronic effects and medical conditions aggravated by over- exposure to this product have not been established. Unnecessary exposure to this product should be avoided.

VII. FIRST AID:

Remove patient from exposure area. Keep patient quiet.

IF SWALLOWED: Drink large volume of water immediately. Do not induce vomiting, avoid alcohol. Consult a physician immediately.

IF INHALED: Remove victim to fresh air. Assist respiration if indicated. If breathing has stopped, start artificial respiration immediately, and continue until physician takes charge

IF ON SKIN; Promptly wash exposed skin with water. If material gets on or inside protective clothing remove protective clothing and wash exposed skin with water. Do not wear contaminated clothing. Wash contaminated clothing separately from household laundry.

IF IN EYES: Contact with eyes is painful and irritating and can cause chemical burns. Flush eyes a gentle stream of clean water for at least 15 minutes. Hold eye lids apart to ensure washing underside of lids. Remove contact lenses while rinsing. Do not attempt to neutralize with chemical agents. See a physician.

If any symptoms persist, following exposure, consult a physician.

VIII. SPILL OR LEAK PROTECTION

Steps To Be Taken If Spilled: Personnel involved with clean up should be equipped with proper protective equipment. See Section IX. Contain spills to prevent discharge to the environment Dike and soak up spilled material with absorbent material such as lime, sawdust, or vermiculite. Prevent electrical sparking. Ventilate the area. Sweep up recovered material and place in appropriate chemical waste container. Wash spill area with water. For large spills recover liquid for reprocessing or disposal.

Waste disposal: Recover material or dispose (incineration is preferred) in accordance with all applicable Federal, state, and local regulations

IX. SPECIAL PROTECTION

For Agricultural Use Requirements refer to label and Worker Protection Standard (WPS) 40 CFR part 170

Respiratory: For exposure in enclosed area use a respirator with either an organic vapor removing cartridge with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH TC-23C) or a canister approved for pesticides (MSHA/NIOSH TC-14G).

Ventilation: Local Exhaust is recommended for indoor use Gloves: Barrier laminate, or viton.

Eye Protection: Wear safety glasses with side shields or goggles.

Other Protective Equipment: Coveralls over short sleeved shirt and pants. Chemical resistant footwear plus socks, chemical resistant headgear for overhead exposure. Chemical resistant apron for cleaning equipment, mixing and loading. Remove clothing immediately if pesticide gets inside and/or after using, wash thoroughly and change to clean clothing. Launder contaminated clothing separately from household wash.

X. SPECIAL PRECAUTIONS

Handling Precautions: Keep out of reach of children. Do not allow drift to unprotected persons. Do not allow contact with sprayed surfaces until sprayed surfaces have dried. R.E.I. 12 hours.

Storing Precautions: Handle cases so as to avoid breakage. Do not store open, leaking, or broken containers. Store in cool, dry, well ventilated area away from ignition sources. Avoid freezing. Store between 50°F and 120°F. Do not store with feed or foodstuffs.

XI. WASTE DISPOSAL Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. When ever possible use excess pesticide according to label instructions. Do not reuse empty containers. Wastes generated from the use of this product may be disposed at an approved waste disposal facility according to local, state and federal regulations. Container Disposal. Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state or local authorities, by burning. If burned, stay out of smoke.

XII. REGULATORY INFORMATION (Not meant to be all-inclusive--Selected regulations referenced)

TRANSPORTATION: Proper shipping name: Insecticides NMFC 102120

REGULATORY: OSHA: This product is a "Hazardous Chemical" as defined by the OSHA COMMUNICATION STANDARD< 29 CFR-1910.1200.

SARA 313 INFORMATION: HAZARD CATEGORIES SARA TITLE III sections 311 & 312: An Immediate Health Hazard, A Delayed Health Hazard, A Fire Hazard

This information relates solely to the designated product and is not inclusive for combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL.

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