

MATERIAL SAFETY DATA SHEET
CONTROLLED RELEASE FERTILIZER 14-14-14
CONTAINS OSMOCOTE^R

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1. PRODUCT IDENTIFICATION

SA-50^R BRAND Controlled Release Fertilizer
Analysis 14-14-14

| NFPA Hazard Ratings | | 0- least |
|---------------------|---|-------------|
| Health | 2 | 1- slight |
| Flammability | 0 | 2- moderate |
| Reactivity | 1 | 3- high |
| | | 4- severe |

II. INGREDIENTS

| | CAS# | OSHA PEL | ACGIH TLV |
|--------------------|-----------|-----------------------|-----------------------|
| Ammonium Nitrate | 6484-52-2 | NONE | NONE |
| Potassium Sulfate | 7778-80-5 | NONE | NONE |
| Ammonium Phosphate | 7783-28-0 | NONE | NONE |
| Calcium Phosphates | 1306-06-5 | NONE | NONE |
| Calcium Fluoride | 7789-75-5 | 2.5 mg/m ³ | 2.5 mg/m ³ |

The ACGIH TLV values for nuisance (inert) dusts containing <1% crystalline silica and no asbestos are 10 mg/m³ total, 5 mg/m³ respirable

Each prill consists of the ingredients listed above, coated with a resin made from vegetable oil (linseed oil or soybean oil) reacted with a cyclic diene. Product coating is expected to minimize airborne exposures

III. FIRST AID PROCEDURES

Eyes If in eyes, flush with water for 15 minutes, holding eyelids open. Get medical attention if irritation persists.
Ingestion Never give anything by mouth to an unconscious or convulsing person. Have person drink 1 to 2 glasses of water or milk, then induce repeated vomiting until vomit is clear. Call a physician.
Skin Wash with plenty of soap and water.
Inhalation Remove to fresh air. Treat symptomatically.

IV. HEALTH HAZARD INFORMATION

Summary of risks Ammonium nitrate is an allergen. Direct contact with uncoated fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat, and lungs. Product coating makes this unlikely. Ingestion of large amounts of product can cause severe gastrointestinal irritation.

Medical conditions which may be aggravated by contact Ammonium Nitrate allergies. Skin abrasions and sores.

Target Organs Skin, Eyes, Respiratory tract, and gastrointestinal tract.

Primary Entry Routes Ingestion, inhalation

Chronic effects Not known

Ingredients listed as a Carcinogen IARC - NO NTP - NO OSHA - NO

V. PERSONAL PROTECTION AND PRECAUTIONS.

Goggles None required for routine fertilizer use.

Gloves None for normal use. If prolonged or repeated use irritates skin, use neoprene or PVC gloves.

Respirator If airborne levels are high or product does not remain intact, use a combination of engineering controls and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists, or fumes) if TLV would be exceeded.

Other: Wear Clean bodily covering work clothing. Do not wear contaminated clothing. Wash thoroughly with soap and water after handling.

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VI. PHYSICAL AND REACTIVITY INFORMATION

| | | | | | |
|------------------------------------|-----------------------|----------------------------|----------------------------|-------------|------|
| <u>Flammable limits (% in air)</u> | N/A | <u>Color</u> | Mixed light/dark tan | <u>Odor</u> | NONE |
| <u>Melting point</u> | Decomposes on heating | <u>Boiling Point</u> | Decomposes on heating | | |
| <u>Extinguishing media</u> | Water | <u>Solubility in Water</u> | 80-85% | | |
| <u>Auto Ignition Temperature</u> | N/A | <u>Specific Gravity</u> | (H ₂ O = 1) 1.2 | | |
| <u>Flash Point</u> | Decomposes on heating | <u>Vapor Pressure</u> | Not Known | | |
| <u>Evaporation Rate</u> | N/A | | | | |

VII. REACTIVITY

| | |
|---|--|
| <u>Stability</u> | Stable |
| <u>Hazardous Polymerization</u> | Will Not Occur |
| <u>Conditions to Avoid And Incompatibilities.</u> | Extreme heat. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and magnesium. Strong reducing agents. |
| <u>Hazardous Decomposition Products:</u> | Ammonia and oxides of nitrogen, phosphorous, potassium and sulfur. |
| <u>Unusual Fire, Explosion And Reactivity Hazards</u> | Decomposes on heating to emit toxic ammonia and oxides of nitrogen, phosphorous, potassium and sulfur. High airborne dust concentrations have the potential for explosion. |
| <u>In case of fire:</u> | Flood with water to cool containers. To fight large fires wear self-contained breathing apparatus and protective clothing. Evacuate the area. |

VIII. TRANSPORTATION

DOT CLASSIFICATION: Environmentally hazardous substance, solid, nos, (nitrates), 9, UN3077, PGIII, Marine pollutant.
Applies only when transported by vessel

IX. STORAGE, SPILLS, AND DISPOSAL:

| | |
|------------------------|---|
| <u>Storage:</u> | Store in a cool dry area away from incompatible materials and heat sources. feed and foodstuffs, household cleaning products. Keep out of reach of children. When stacking leave air spacing between walls and adjacent stacks. |
| <u>Spill Clean Up:</u> | Avoid dusting and or wetting conditions during clean up. If material is not contaminated, collect and use as recommended. If contaminated, put in appropriate container and dispose. Keep spills from contaminating drinking water supplies and other water sources. After clean up, flush area with water. |
| <u>Waste Disposal:</u> | Apply as fertilizer, if not contaminated. If contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state, and local regulations. |

This information relates solely to this specific material. It does not include 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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