



# MATERIAL SAFETY DATA SHEET

# SAFETY DATA

PRODUCT: **DRI-OUT**→ (MICRON SIZED SILICA)

DATE: June 1, 1999

## Emergency Contact:

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*The following information includes safety data required by OSHA. The recipient of this safety data is responsible for passing the safety information on so that it reaches the ultimate user who may come in contact with the material.*

**TRADE NAME:** **DRI-OUT**®  
INSECTICIDE (A trademark of HOME SAVING TERMITE CONTROL, INC.)

**CHEMICAL NAME & FAMILY:** Synthetic Amorphous Silica

**SYNONYMS:** Amorphous Silicon Dioxide, Silica Gel, Silicic Acid

**CHEMICAL NOTATION OR STRUCTURE:**  $\text{SiO}_2 \cdot x\text{H}_2\text{O}$

**INGREDIENTS:** Amorphous Silica and absorbed moisture.  
Synthetic amorphous silica, not to be confused with crystalline silica such as quartz, cristobalite or tridy-mite or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms.

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## HEALTH INFORMATION

### PRECAUTIONS IN USE:

Avoid prolonged breathing of the dust or contact of dust with the skin. The drying action of this material can cause irritation of the mucous membranes of the nose and throat and irritation of the skin. If its use requires manual handling, wear long sleeves and close-weave cotton gloves with tight-fitting wristlets. If dusty conditions prevail, wear a properly fitted NIOSH-approved dust respirator. Wear goggles if dust causes eye discomfort.

When pouring into a container of flammable liquid, ground both containers electrically to prevent a static electric spark.

### FIRST AID:

**EYES:** Immediately wash from eyes with large amounts of water, occasionally lifting upper and lower eye lids. If irritation occurs and persists, seek medical attention.

**SKIN:** Wash with soap and water.

**INGESTION:** Material will pass through the body normally.

**INHALATION:** Remove to fresh air.

## TOXICOLOGY

This product and its components are not listed on the IARC, NTP or OSHA Carcinogens Lists.

### ANIMAL TOXICOLOGY

#### TESTS FOR DOT HAZARD CLASSIFICATION:

Tests conducted on finely ground silica gel.

1-hour LC<sub>50</sub> (Rat) > 2 mg/1  
48-hour oral LD<sub>50</sub> (Rat) > est. 31,600 mg/kg  
48-hour dermal LD<sub>50</sub> (Rabbit) > est. 2,000 mg/kg  
Not considered an ocular irritant.

LD<sub>50</sub> (Mice) 8,000 mg/kg (limit of test)  
LD<sub>50</sub> (Rats) 4,500 mg/kg (limit of test)  
6 month's feeding tests (rats) at levels up to 10% of diet produced no effects.

#### HUMAN TOXICOLOGY:

Silica gel is a synthetic amorphous silica not to be confused with crystalline silica. Epidemiological studies indicate low potential for adverse health effects. Silica gel is considered by manufacturer to be a nuisance dust. In the activated form, silica gel acts as a desiccant and cause a drying irritation of the mucous membranes and skin in cases of severe exposure. Manufacturer knows of no medical conditions abnormally aggravated by exposure to this product. The primary route of entry is inhalation.

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## ENVIRONMENTAL DATA

Not known to have any adverse effect on the aquatic environment. It is insoluble and non-toxic

## TYPICAL CHEMICAL & PHYSICAL INFORMATION

**APPEARANCE:** Dry White Powder, Average Particle Size 2.5-15.0 microns.

**pH IN 5% SLURRY:** 3-8

**ODOR:** None

**SPECIFIC GRAVITY:** 2.1

**BULK DENSITY:** Range - 7.0 - 21.0 lbs/ft.<sup>3</sup>

**SOLUBILITY IN WATER:** Insoluble

**APPROXIMATE ANALYSIS:** SiO<sub>2</sub> (Ignited basis) 99.4%  
LOI @ 1750 F - 8.5%  
Heavy Metals < less than 30 ppm  
Lead < less than 10 ppm  
Crystalline Silica - not detectable.

**STABILITY:** Stable

**REACTIVITY:** Reacts with HF

**FIRE & EXPLOSION DATA:** Non-flammable

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## REGULATORY STATUS

<b>OSHA-</b>	PEL - 6 mg/M <sup>3</sup>
<b>NIOSH-</b>	Animal tests conducted in 1976-78. 18 month exposure at 15 mg/m <sup>3</sup> showed silica deposition in respiratory macrophages and lymph nodes, minimum lung function impairment, and no silicosis.
<b>EPA-</b>	This product contains no toxic chemicals in excess of the applicable de minimis concentration as specified under § 313 of Title III SARA. ( <i>E.P.A. REG. NO. 71788-1 E.P.A. EST. NO.71788-CA-1</i> )
<b>DOT-</b>	Not classified as a hazardous material.

## HANDLING INFORMATION

<b>STORAGE AND TRANSPORTATION:</b>	Keep tightly sealed to protect quality.
<b>DISPOSAL:</b>	Dispose in an approved landfill according to federal, state and local regulations. Cover promptly to avoid blowing of dust.
<b>SPILLAGE AND CLEANUP:</b>	Sweep or vacuum up or flush to sewer.
<b>CONTAINERS:</b>	Paperbags or plastic containers.

## SPECIAL INFORMATION

Hazardous Materials Identification system :

**HEALTH HAZARD** - 0

**FLAMMABILITY** - 0

**REACTIVITY** - 0

**PERSONNEL PROTECTION** - Avoid inhalation of dust. For prolonged exposure, use a dust/mist filtering respirator (MSHA/NIOSH approval number TC-21C); or a NIOSH-approved respirator with any N, P, R, or HE filter.

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