

# MATERIAL SAFETY DATA SHEET

MSDS Number: MSDS-3

ISSUE DATE: 02/02/06

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## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name  
GreenCure

EPA Reg. No.: 70870-1

H & I Agritech, Inc.  
95 Brown Road, Box 1030  
Ithaca, NY 14850

Emergency Phone:  
1-607-266-0181 (USA)

Medical Emergency Phone:  
1-800-858-7378

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>% by Weight</u>	<u>CAS Number</u>
Potassium Bicarbonate	85%	298-14-6

Contains no components that are reported to be carcinogenic by any reference source including IARC, OSHA, NTP, and ACGIH.

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

White to off-white powder; mild characteristic odor.  
Moderate eye irritant.  
May irritate skin.  
No significant environmental effects.  
Not a fire hazard; stable.

This product is labeled in accordance with regulations administered by the Environmental Protection Agency (EPA). The requirements of the Occupational Safety and Health Administration applicable to this MSDS differ from the labeling requirements of the EPA and, as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

<u>HMIS Rating</u>	
Health	1
Fire	0
Reactivity	0

### Potential Health Effects

**EYE:** Moderately irritating but not expected to result in injury. Effects minimized with washing.

**SKIN CONTACT:** Not a primary skin irritant. Various severities of irritation are possible on prolonged, repeated or occluded contact.

**INGESTION:** Low toxicity. Ingestion of small amounts (teaspoonful) not likely to cause injury. Ingestion of larger amounts may cause abdominal discomfort and injury.

**INHALATION:** Inhalation of dusts may cause irritation to the nose, throat and lungs.

**SUBCHRONIC EFFECTS/CARCINOGENICITY:** None known. Ingredients are not listed as carcinogens or potential carcinogens by IARC, NTP, OSHA, or ACGIH.

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### 4. FIRST AID MEASURES

**EYES:** Check for and remove contacts if present. Immediately flush eyes with clean flowing water, low pressure and lukewarm if possible, occasionally lifting upper eyelids. Seek medical attention if irritation persists.

**SKIN:** Remove contaminated clothing. Flush exposed areas thoroughly with water. Seek medical attention if irritation develops.

**INHALATION:** Remove to area free from risk of further exposure. Treat symptomatically.

**INGESTION:** If swallowed, do not induce vomiting. If person is conscious, give water to drink. Never give anything orally to an unconscious person. Seek medical attention.

**NOTE TO PHYSICIAN:** Ingestion of large doses may produce systemic alkalosis. Treatment based on judgment of physician in response to reactions of the patient.

### 5. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

FLASHPOINT: Not combustible

METHOD USED: Not applicable

#### FLAMMABLE LIMITS

LFL: Not applicable

UFL: Not applicable

**EXTINGUISHING MEDIA:** Non-combustible material. Use extinguishing media for surrounding fire.

**FIRE FIGHTING INSTRUCTIONS:** Firefighters should wear full protective equipment including bunker gear and a self-contained breathing apparatus (SCBA).

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known.

### 6. ACCIDENTAL RELEASE MEASURES

Wear skin, eye and respiratory protection (See Section 8). Close off area of spill during cleanup. Sweep up material and place into waste containers for disposal. Avoid stirring up dust. Cover and label containers and remove from spill area for later disposal. Flush area thoroughly with water. Solutions may create slippery surfaces. Make sure surface is slip-free before reopening to traffic.

### 7. HANDLING AND STORAGE

Store in original containers in a cool, dry place away from incompatible materials (acids). If product must be transferred, use only clean containers, label them appropriately, and keep containers closed during storage. Minimize airborne dusts and avoid contact with product during transfer, use and clean up. Wear appropriate protective equipment (See Section 8).

Reacts with acids to yield carbon dioxide gas which can accumulate in confined spaces. Do not enter confined spaces until they have been well ventilated and determined to be safe.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: Not established. Recommend ACGIH TWA of 10 mg/m<sup>3</sup> for Particulates Not Otherwise Classified (PNOC).

EXPOSURE CONTROLS: Provide local exhaust ventilation to meet permissible exposure limit where dusts may occur.

RESPIRATORY PROTECTION: If dust is generated, use a NIOSH/MSHA approved dust respirator.

PROTECTIVE GLOVES: Chemical resistant gloves are recommended for repeated or prolonged contact with powder or dusts. Wear impermeable gloves for repeated or prolonged contact with solutions.

EYE PROTECTION: Chemical safety goggles are recommended when handling powder or solutions to protect from exposure to dusts, mists or splashes.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: No special requirements beyond full cover clothing to protect against skin contact.

PROTECTIVE WORK/HYGIENIC PRACTICES: No special requirements with respect to chemical exposure beyond those noted above. Specific requirements with respect to equipment and applications are the responsibility of the user.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White to gray-white powder

ODOR: Mild, characteristic

PHYSICAL STATE: Powder

pH 1%: 8 - 8.4

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

BOILING POINT: Not applicable

FREEZING/MELTING POINT: Not applicable

SOLUBILITY IN WATER: Appreciable

SPECIFIC GRAVITY (Water=1): 0.760 - 0.860 g/cc

APPARENT DENSITY: 6.3 - 7.2 lbs/gal

VOLATILE ORGANIC COMPOUNDS: none < C<sub>12</sub>

MOLECULAR WEIGHT: Not applicable (mixture)

### 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Direct exposure to prolonged high humidity or other moist/damp conditions may cause product to cake.

INCOMPATIBILITY WITH OTHER MATERIALS: Reacts with acids to yield carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may emit carbon dioxide, oxides of sulfur, and potassium oxide.

HAZARDOUS POLYMERIZATION: Will not occur.

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### 11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: The 1-hour MMTS (rabbit-unw) was 16.3. Effects were fully reversible by day 7. The MMTS (unw) for a 0.5% active ingredient use dilution was 0.3 (classified as non-irritating).

SKIN EFFECTS: The primary Dermal Irritation Index (rabbit) was 0.17. The Acute Dermal LD<sub>50</sub> was >5000 mg/kg. Product was not a skin sensitizer (Buehler Method).

ACUTE ORAL EFFECTS: LD<sub>50</sub> (rat) was 2700 mg/kg.

INHALATION EFFECTS: LC<sub>50</sub> was >2.3 mg/l.

### 12. DISPOSAL CONSIDERATIONS

Landfill in accordance with all local, state and federal environmental regulations. Local and state laws may differ from federal, so be sure to consult with appropriate agencies for specific rules. Dilute and drain small amounts (spill residues) to sewer or other waste handling system as local regulations permit.

### 13. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not regulated  
TECHNICAL SHIPPING NAME: Shipped as GreenCure®  
D.O.T. HAZARD CLASS: Not regulated  
U.N./N.A. NUMBER: None  
HAZARDOUS SUBSTANCE/RQ: None  
D.O.T. LABEL: None  
D.O.T. PLACARD: None

### 14. MISCELLANEOUS INFORMATION

Ingredients are reported in the U.S. TSCA Inventory List.

Ingredients are not listed as carcinogens or potential carcinogens by any reference source including NTP Annual Report, IARC Group I or II, OSHA 29CFR Part 1910, Subpart Z, or ACGIH Appendix A.

Contains no toxic chemicals subject to the reporting requirements of SARA Title III, Section 313.  
Contains no CERCLA reportable materials.

### 15. MSDS REVISION SUMMARY

REASON FOR REVISION: None, Initial issue.

SUPERSEDES DATE: None

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