

# *Crop-Up™*

## TREATMENT FOR SALT CONTAMINATED SOILS

### PRODUCT DATA SHEET

#### PHYSICAL PROPERTIES

Colorless – amber /odorless liquid  
10.9 lbs./gal

#### PACKAGING

55 gallon drums

#### AREAS FOR USE

Soil deeply contaminated with salt  
(sodium chloride)

#### SAFETY AND HANDLING

*Crop-Up™* is a non-toxic solution and is not subject to DOT regulations. Protective clothing, rubber gloves, and either a face shield or safety goggles are recommended. For further details, follow the Safety Data Sheet.

#### COVERAGE

Site specific, consult **Environmental Recovery** Sales Representative

#### TOOLS FOR APPLICATION

Spray tank, vacuum truck, agriculture sprinkler systems, or any common method of water application

#### APPLICATION TEST REQUIREMENTS

NPK, soil nutrients

• *Crop-Up™* is specially designed for accelerated restoration of crops and vegetation in areas previously affected by salt and hydrocarbon contamination. *Crop-Up™* stimulates growth while supplying a stabilized balance of vital nutrients for depleted and stressed soils. Soils affected by salts and hydrocarbons are usually deprived of the soil structure and critical nutrients necessary for seeding emergence and re-growth. These soils are generally composed of dense layers that are usually impenetrable to plant roots.

*Crop-Up™* amends the soil by flocculating soil particles and destroying these dense layers, allowing water and nutrients to reach the root zone. *Crop-Up™* also strengthens cell wall structure for improved development during plant emergence.

*Crop-Up™* is a non-hazardous product that can be used in conjunction with soil remediation products such as *ACCEL™* and *ReNew™* for the remediation of hydrocarbon and salt contaminated soils. Please consult your **GROMEGA** representative for product application recommendations and guidelines,

If used according to recommended procedures and guidelines, *Crop-Up™* accelerates the restoration of vegetation in areas previously affected by salt and hydrocarbon contamination.

Call (501) 827-9982 for assistance.

Issuing Date 10-0ec-2014

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Revision Number 0

## 1. IDENTIFICATION

GHS product identifier

Product Name **Crop-Up™**

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use For Soil Amendment

Uses Advised Against No information available

Distributor's Details

Environmental Recovery  
7555 Katy Freeway #161  
Houston, TX. 77024

Emergency Telephone Number

Emergency Telephone Number CHEMTREC: 1-800-424-9300 for US/703-527-3887 outside US

## 2. HAZARDS IDENTIFICATION

Classification

This product is considered non-hazardous by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation

Category 2

GHS Label elements, including precautionary statements

### Emergency Overview

**Signal Word**

**Hazard Statements**

May be harmful if swallowed  
Causes serious eye irritation

**Warning**



**Appearance:** Colorless to Amber

**Physical State:** Liquid

### Precautionary Statements

#### Prevention

- Wash face, hands and any exposed skin thoroughly after handling.
- Wear eye/face protection.

#### General Advice

- None

#### Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

#### Storage

- None

#### Disposal

- None

### Hazard Not Otherwise Classified (HNOC)

Not applicable

## 3. COMPOSITION INFORMATION ON INGREDIENTS

The composition of this product is proprietary. In the event of a medical emergency, compositional information will be revealed to a physician or nurse. This product is Non-Hazardous as defined in 29 CFR 1910.1200.

## 4. FIRST AID MEASURES

### Description of necessary first-aid measures

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. Remove from exposure, lie
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician.

### Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** Irritation

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

### Specific Hazards Arising from the Chemical

No information available.

#### Explosion Data

Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	None

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill / leak. Do not touch or walk through spilled material.

**Advice for emergency responders** Wear personal protective equipment.

### Environmental Precautions

**Environmental Precautions** Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

### Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Dike far ahead of spill; use dry sand to contain the flow of material

**Methods for Cleaning Up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.  
After cleaning, flush away traces with water. Prevent product from entering drains.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Wear PPE

Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

### Appropriate engineering controls

**Engineering Measures** Provide local exhaust ventilations system When there is a potential for exposure, an emergency eyewash and safety shower should be provided within the immediate work area.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear safety glasses with non-flexible side shields or chemical goggles A face shield should be worn if a potential for splashing or spraying exists.

**Skin and Body Protection** Wear appropriate protective, impervious clothing. Wear appropriate protective non-leather protective gloves and boots. Chemical protective gloves and boots such as PVC, Neoprene, or Heavy Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction

**Respiratory Protection** A respirator is not indicated under normal operating conditions. Use of a NIOSH - approved respirator (N95 or greater) should be based on the presence of nuisance dusts.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Odor	Liquid Odorless	Appearance Odor Threshold	Colorless/Amber No information available
<b>Property</b>	<b>Values</b>	<b>Remarks - Method</b>	
pH	6.0 - 8.0	None known	
Melting Point/Range	Not determined	None known	
Boiling Point/Boiling Range	112°C / 234°F	None known	
Flash Point	Not applicable.	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)		None known	
Flammability Limits in Air			
upper flammability limit	No data available	None known	
lower flammability limit	No data available	None known	
Vapor Pressure	< 0.1 mmHg @ 68°F (20°C)	None known	
Vapor Density	No data available	None known	
Specific Gravity	1.31@ 77°F(25°C)	None known	
Water Solubility	Completely soluble	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	Not determined	None known	
Autoignition Temperature	No data available	None known	
Decomposition Temperature	No data available		
Viscosity	not determined		
Flammable Properties	Not flammable		
Explosive Properties	No data available		

**Oxidizing Properties** No data available

**Other information**

**VOC Content (%)** Not applicable.

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

<b>Inhalation</b>	May cause irritation.
<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	Slightly toxic by dermal absorption.
<b>Ingestion</b>	Moderately toxic by ingestion.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no ingredients above reportable quantities listed as a carcinogen.
<b>Reproductive Toxicity</b>	No information available.

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

**Persistence and Degradability** No information available.

**Bioaccumulation**

### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### **Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

### **Contaminated Packaging**

Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

DOT - Not Regulated

## 15. REGULATORY INFORMATION

### International Inventories

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSUNDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 3111312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations****U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

<b>16. OTHER INFORMATION</b>
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NFPA	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards - Personal Protection X
HMS	Health Hazard 1	Flammability 0	Physical Hazard 0	

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**General Disclaimer**

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