# ReNew<sup>TM</sup>

## TREATMENT FOR SALT CONTAMINATED SOILS

## PRODUCT DATA SHEET

#### PHYSICAL PROPERTIES

Light green/odorless liquid 11.42 lbs./liquid gallon

## **PACKAGING**

Bulk

#### AREAS FOR USE

Soil contaminated with salt (sodium chloride)

#### SAFETY AND HANDLING

**ReNew** 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

EC, SAR, Sodium ppm, ESP, CEC

ReNew™ an effective source for immediate sodium ion exchange.

ReNew™ offers immediate sodium displacement and improved soil structure for increased water infiltration and soil permeability.

**ReNew** will improve soils of naturally inadequate drainage as well as the drainage losses caused by excess sodium concentrations.

**ReNew** causes aggregation of dispersed soil particles, generally associated with older sites and heavily sodium contaminated soil.

**ReNew** serves as a valuable source of nutrition for plants and crops through enhanced nitrogen uptake and efficiency.

ReNew is a safe to handle liquid that is easily applied to sodium damaged soil. Any common method of water application will be suitable for ReNew application. Spray tanks, vacuum trucks, and agriculture sprinkler systems as well as water flood methods have all been proven effective. ReNew is a concentrated liquid requiring fresh water dilution and irrigation following application. ReNew is available in bulk.





Issuing Date 10-0ec-2014

Revision Date 10-Dec-2014

**Revision Number 0** 

#### 1. IDENTIFICATION

GHS product identifier

**Product Name** 

ReNew™

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

Warning

May be harmful if swallowed Causes serious eye irritation



Appearance: Colorless to Amber / Light Green

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 of nurse. This product is Non-Hazardous as defined in 29 CFR 1910.1200.

## 4. FIRST AID MEASURES

## Description of necessary first-aid measures

General Advice If symptoms persist, call a physician,

Eye Contact 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.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. If skin irritation persists, call a physician.

Inhalation Move to fresh air in case of accidental inhalation of vapors. Remove from exposure, lie

down. If symptoms persist, call a physician.

Ingestion 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 Sensitivity to Static Discharge None 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 spilLleak. 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

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.

Wear appropriate protective, impervious clothing. Wear appropriate protective non-leather **Skin and Body Protection** 

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	Liquid	Appearance Odor Threshold	Colorless/Amber/Light Green
Odor	Odorless		No information available

**Property Values** Remarks - Method None known 6.0 - 8.0pН None known Melting Point/Range Not determined **Boiling Point/Boiling Range** None known 112°C / 234 OF Flash Point None known Not applicable. **Evaporation rate** None known No data available Flammability (solid, gas) None known Flammability Limits in Air upper flammability limit No data available lower flammability limit No data available **Vapor Pressure** < 0.1 mmHg @ 68°F (20°C) None known **Vapor Density** No data available None known **Specific Gravity** 1.39 @ 15°C (59°F) 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 None known **Viscosity** not determined None known

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** 

Inhalation
Eye Contact
Skin Contact
Ingestion

May cause irritation. Irritating to eyes.

Slightly toxic by dermal absorption. 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

Sensitization
Mutagenic Effects
Carcinogenicity

No information available. No information available.

Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity No information available.

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

## 16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X

Issuing Date	10-0ec-2014
Revision Date	10-0ec-2014
Revision Note	Initial Release.

## General Disclaimer

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