

## SAFETY DATA SHEET



### SECTION 1: IDENTIFICATION

**PRODUCT IDENTIFIER:** **Renew**  
**PRODUCT TYPE/DESCRIPTION:** Irrigation line cleaner  
**OTHER MEANS OF IDENTIFICATION:** Peroxide, cleaner.

**SUPPLIER IDENTIFIER:** Athena Ag, Inc.,  
4626 Lenox Avenue, Jacksonville, FL 32205  
Phone: 818.333.1818;  
Email : compliance@athenaag.com

**EMERGENCY PHONE NUMBER:** 1.801.629.0667

### SECTION 2: HAZARD IDENTIFICATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), These requirements differ from the classification criteria and hazard information required for safety data sheets of non-pesticide chemicals. Please see Section 15 for FIFRA labeling information.

#### CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin Corrosion - Category 1  
Serious Eye Damage - Category 1  
Oxidizing Liquids - Category 2  
Corrosive to Metals - Category 1  
Oxidizing Liquids - Category 2  
Acute Toxicity - Oral Category 4  
Acute Toxicity - Dermal Category 5

#### HAZARD STATEMENTS:

Causes severe skin burns and eye damage  
May intensify fire; oxidizer  
May be corrosive to metals  
Harmful if swallowed  
May be harmful in contact with skin

**PICTOGRAM: NONE /**  
**SIGNAL WORD: N/A:**

DANGER





**PRECAUTIONARY STATEMENTS**

**PREVENTION:**

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands thoroughly after handling

Keep away from heat/sparks/open flames/hot surfaces -No smoking.

Keep/Store away from clothing/combustible materials.

Do not eat, drink or smoke when using this product.

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

**RESPONSE:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Wash contaminated clothing before reuse.

In case of fire: Use water for extinction.

Absorb spillage to prevent material damage.

**STORAGE:**

Store locked up.

Store in a corrosive resistant container with a resistant inner liner.

Store in a well ventilated place.  
Keep container tightly closed.

## SAFETY DATA SHEET



**DISPOSAL:** Dispose of contents/container in accordance with local regulations.

**HAZARDS NOT OTHERWISE CLASSIFIED:** No other hazards classified.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PROPORTION IN FINAL PRODUCT
Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> )	7722-84-1	30-35%
1-Hydroxyethylidene-1,1-Diphosphonic Acid (HEDP)	2809-21-4	10-15%

### SECTION 4: FIRST AID MEASURES

**FOLLOWING INHALATION:** Remove source of exposure or move person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.

**FOLLOWING SKIN CONTACT:** Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower with a flushing duration of 30 Minutes. Immediately call POISON CENTER/doctor. Wash contaminated clothing before re-use.

**FOLLOWING EYE CONTACT:** Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 30 minutes. Take care not to rinse contaminated water into the unaffected eye or into the face. Immediately call a POISON CENTER/doctor.

**FOLLOWING INGESTION:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

**MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE AND DELAYED:** Causes severe skin burns and eye damage, burning of the mouth, throat, and esophagus.



**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED:**

Treat symptomatically

**SECTION 5: FIRE FIGHTING MEASURES**

**EXTINGUISH MEDIA:**

Material is not flammable. Use extinguisher media appropriate for material in surrounding fire.

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**

Product is non-combustible. On decomposition releases oxygen which may intensify fire.

**FLAMMABILITY CLASSIFICATION (OSHA 29 CFR 1910.106) (HAZCOM 2012):**

Non flammable.

**HAZARDOUS COMBUSTION PRODUCTS:**

Non combustible.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

**SMALL SPILLS (LESS THAN 1 GALLON):**

Neutralize with soda ash or cover with dry earth, sand or other non combustible material, place into loosely covered plastic containers for later disposal. If neutralized, material can be diluted into drain.

**LARGE SPILLS:**

Restrict access to area until completion of clean up. Prevent liquid from entering sewers or waterways. Stop or reduce leak if safe to do so. Dike with inert material (sand, earth, etc.). Collect into plastic containers for disposal. Ensure adequate decontamination of tools and equipment following clean up.

**SPECIAL SPILL RESPONSE PROCEDURES:**

Collect spills in plastic containers only.



## SECTION 7: HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear at least chemical resistant gloves and eye protection, face shield, and chemical resistant garments when handling, moving or using this product. Do not contaminate water, food, or feed by storage or disposal.

**CONDITIONS FOR SAFE STORAGE:** Store in a cool, dry, well ventilated place away from direct sunlight.

**INCOMPATIBLE MATERIALS:** Reducing agents, wood, paper and other combustibles, iron and other heavy metals, copper alloys and caustic.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL IDENTITY	CAS NUMBER	TYPE	EXPOSURE LIMIT VALUES	SOURCE
Hydrogen Peroxide	7722-84-1	PEL	1 ppm (1.4 mg/m <sup>3</sup> )	OSHA
		REL	1 ppm	NIOSH
		TLV	1 ppm	ACGIH

**VENTILATION AND ENGINEERING MEASURES:** Forced air, local exhaust, or open air is adequate.

**RESPIRATORY PROTECTION:** In case of confined spaces or high levels encountered in the air, wear self contained breathing apparatus.

**SKIN PROTECTION:** Wear chemical resistant gloves and chemical resistant garments when handling, wash garments before reuse.

**EYE/FACE PROTECTION:** Wear chemical goggles; also wear a face shield if splashing hazard exists.

**OTHER PROTECTIVE EQUIPMENT:** Eye wash facility and emergency shower should be in close proximity.

**GENERAL HYGIENE CONDITIONS:** Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industry hygiene and safety practice.

## SAFETY DATA SHEET



### EXPOSURE LIMITS:

Hydrogen peroxide: OSHA PEL: 1 ppm, NIOSH REL: 1 ppm, ACGIH TLV: 1 ppm:

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Clear,colorless
<b>PHYSICAL STATE:</b>	liquid
<b>ODOR:</b>	Vinegar odor
<b>ODOR THRESHOLD:</b>	Not applicable
<b>SPECIFIC GRAVITY (H2O=1):</b>	1.22 g/ml
<b>RELATIVE DENSITY:</b>	1.22 g/ml
<b>pH:</b>	<2
<b>MELTING POINT:</b>	No information available
<b>FREEZING POINT:</b>	No information available
<b>INITIAL BOIL POINT/RANGE:</b>	No information available
<b>FLASH POINT:</b>	No information available
<b>EVAPORATION RATE:</b>	
<b>FLAMMABILITY (SOLID, GAS)</b>	Non flammable
<b>UPPER/LOWER FLAMMABILITY</b>	
<b>OR EXPLOSIVE LIMITS:</b>	Not applicable
<b>VAPOR PRESSURE(mm Hg):</b>	Not applicable
<b>VAPOR DENSITY (AIR=1):</b>	Not applicable
<b>SOLUBILITY:</b>	Complete
<b>PARTITION COEFFICIENT, N-OCTANOL/ WATER (LOG/KOW):</b>	Not applicable
<b>AUTO-IGNITION TEMP. (°C):</b>	Not applicable
<b>POTENTIAL FOR DUST EXPLOSION:</b>	Not applicable
<b>DECOMPOSITION TEMP.</b>	No information available
<b>VISCOSITY:</b>	10-15 cSt at 20°C / 68°F
<b>VOLATILES (% BY WEIGHT):</b>	
<b>VOLATILE ORGANIC COMPOUNDS:</b>	No information available

## SECTION 10: STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	Reactive with certain acids, reducing agents, organic materials, metals, bases and alkalis.
<b>CHEMICAL STABILITY:</b>	Stable under normal conditions.
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	May react with incompatible materials.
<b>CONDITIONS TO AVOID:</b>	Incompatible materials and high temperatures.
<b>INCOMPATIBLE MATERIALS:</b>	Reducing agents, wood, paper and other combustibles, iron and other heavy metals, copper alloys and caustic.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxygen which supports combustion.



## SECTION 11: TOXICOLOGICAL INFORMATION

**INFORMATION ON LIKELY ROUTES OF EXPOSURE:**

Routes of entry - inhalation: YES  
 Routes of entry - skin & eye: YES  
 Routes of entry - ingestion: YES  
 Routes of entry - skin absorption: NO

**POTENTIAL HEALTH EFFECTS****SIGNS AND SYMPTOMS OF SHORT TERM (ACUTE) EXPOSURE:****INHALATION:**

Inhalation of the mist may produce severe irritation of respiratory tract, characterized by coughing, choking, shortness of breath, Headaches, dizziness, nausea, weakness and/or drowsiness.

**INGESTION:**

Corrosive! Swallowing causes severe burns of mouth, throat, and stomach. Severe scarring of tissue, corrosion, permanent tissue destruction and death may result. Symptoms may include severe pain, nausea, vomiting, diarrhea, shock, hemorrhaging and/or fall in blood pressure. Damage may appear days after exposure.

**SKIN:**

Corrosive! Contact with skin causes irritation or severe burns and scarring with greater exposures.

**EYE:**

Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

**POTENTIAL HEALTH EFFECTS****MUTAGENICITY:**

May have mutagenic effects in humans and/or animals.

**CARCINOGENICITY:**

No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.

**REPRODUCTIVE EFFECTS:**

No known reproductive effects in humans or animals.

**SENSITIZATION TO MATERIAL:**

Not a known sensitizer in humans or animals.

**SPECIFIC TARGET ORGAN EFFECTS:**

No information available

**MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:**

No information available

**TOXICOLOGICAL DATA****CALCULATED ATE VALUES FOR THIS MIXTURE:**

ATE oral = 1193 mg/kg (male rat)  
 1270 mg/kg (female rat)  
 ATE dermal= >2000 mg/kg (rabbit)  
 ATE inhalation = >20 mg/L

**SECTION 12: ECOLOGICAL INFORMATION**

**ECOTOXICITY:** May be harmful to aquatic life.

**PERSISTENCE AND DEGRADABILITY:** Not expected to persist. Readily biodegrade.

**MOBILITY IN SOIL:** No information available.

**BIOACCUMULATIVE POTENTIAL:** Not expected to bioaccumulate.

**SECTION 13: DISPOSAL CONSIDERATIONS****HANDLING FOR DISPOSAL:**

Do not contaminate water, food, or feed by storage and/or disposal. When handling refer to protective measures listed in sections 7 and 8. Empty residue from containers, rinse container well.

**METHOD OF DISPOSAL:**

Dispose of in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**RCRA:**

Not a listed RCRA hazardous waste.

**SECTION 14: TRANSPORT INFORMATION**

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Please note the GHS and DOT Standards are NOT identical and therefore can have varying classifications

**US 49 CFR/DOT/IATA/IMDG INFORMATION**

**UN NO.:** 3098

**UN PROPER SHIPPING NAME:** Oxidizing liquid, corrosive, n.o.s. (contains hydrogen peroxide and peroxyacetic acid mixture, stabilized)



## SAFETY DATA SHEET



**TRANSPORTATION HAZARD CLASS(ES):** 5.1 (8)

**PACKING GROUP:** II

**ENVIRONMENTAL HAZARDS:** Not a Marine Pollutant.

### SECTION 15: REGULATORY INFORMATION

#### **US FEDERAL INFORMATION**

**TSCA INFORMATION:** All components are listed on the TSCA inventory.

**US CERCLA REPORTABLE QUANTITY:** Non regulated material.

**SARA TITLE III HAZARD CATEGORIES:** Acute Health Hazard

### SECTION 16: OTHER INFORMATION

#### **Legend**

**SARA:** The Superfund Amendments and Reauthorization Act

**RCRA:** Resource Conservation and Recovery Act

**TSCA:** Toxic Substances Control Act

**CFR:** Code of Federal Regulations

**DOT:** Department of Transportation

**ATE:** Acute Toxicity Estimate

**Revision No.:** 2

**Preparation date:** 12/10/2021

**DATE OF LAST REVISION:** April 14, 2022

To the extent of our knowledge, the information herein is accurate as of the date of this document. However, neither Athena nor any of its affiliates make any warranty, expressed or implied, or accept any liability in connection with the information or its use. The information is for use by technically skilled persons at their own discretion and risk. This is not a license or a patent. The user alone must finally determine suitability or any information or materials for any contemplated use, the manner or use and whether any patents are infringed.

For additional information, call us toll-free at 1.844.333.1818 or visit [www.athenaag.com](http://www.athenaag.com)