

# SAFETY DATA SHEET

---

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Renew

**OTHER MEANS OF IDENTIFICATION:** Not applicable.

**GENERAL USE:** For professional drycleaning use only.

**PRODUCT DESCRIPTION:** Sizing

### MANUFACTURER

Adco Professional Products LLC

1706 Ledo Rd.

Albany, GA 31707

**Product Information:** 800-821-7556 (USA  
& Canada only)

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**Medical Emergency:** 866-303-6947 (USA & Canada  
only) or 651-632-9272

**Transportation Emergency:** 800-424-9300 (USA &  
Canada only) or 703-527-3887

---

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Skin Irritation/corrosion: Category 2

Acute Toxicity, Inhalation: Category 4

Specific Target Organ Toxicity (STOT-SE) Narcotic Effects: Category 3

Carcinogenicity: Category 2

### GHS LABEL ELEMENTS

**Symbol(s):**



**Signal Word:** Danger

### Hazard Statements:

H315: Causes skin irritation.

H332: Harmful if inhaled.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer.

### Precautionary Statements:

P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood.

P261 – Avoid breathing dust, fume, gas, mist, vapor, spray.

P264 – Wash thoroughly after handling.

P271 – Use only outdoors or in well-ventilated area.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 – IF ON SKIN: wash with plenty of soap and water.

P304+P340+P312– IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing. Call a POISON CENTER or doctor/physician IF you feel unwell.

P308+P313 – IF exposed or concerned, get medical advice/attention.

P332+P313 – IF SKIN irritation occurs: Get medical advice/attention.

P362+P364 – Take off contaminated clothing and wash before reuse.

P403+P233 – Store in a well-ventilated place and keep container tightly closed.

P501 – Dispose of contents and container to licensed, permitted incinerator, or other thermal destruction device.

**Other Hazards:** Not available.

**Unknown Acute Toxicity:** Not applicable.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

The specific identities of one or more components of this product are withheld as a trade secret.

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS</u>
Tetrachloroethylene	<50	127-18-4
Trade Secret #2	-	-
Trade Secret #3	-	-

**COMMENTS:** None.

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Remove contaminated clothing. Wash with water. Consult a physician if irritation persists.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove affected person to fresh air. If not breathing, give artificial respiration. Get medical attention.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Irritation, redness.

**SKIN:** Irritation, redness, drying.

**SKIN ABSORPTION:** No data available.

**INGESTION:** Irritation to mouth, throat, and stomach. Repeated exposure could lead to gastrointestinal disturbance.

**INHALATION:** Excessive exposure may cause irritation to eyes, nose, throat and lungs, respiratory tract, headaches, loss of consciousness, nausea. High concentrations can cause central nervous system depression and EEG abnormalities.

**ADDITIONAL INFORMATION:** After emergency actions, call the emergency medical information number on page 1 or a physician immediately.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Not applicable.

**EXTINGUISHING MEDIA:** Not applicable.

**HAZARDOUS COMBUSTION PRODUCTS:** Hydrogen chloride, phosgene, chlorine.

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

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Clean up spill with absorbent material and water, if necessary.

**LARGE SPILL:** Contain spill. Provide plenty of fresh air. Avoid breathing vapor. Clean up spills immediately with absorbent material, observing precautions in the Exposure Controls/Protection section

(see section 8). Place absorbed material in closed containers for disposal (see section 13). Do not flush to sewer. Avoid contamination of ground and surface waters.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Not applicable.

**HANDLING:** Follow all SDS/label precautions even after container is emptied because it may retain product residues.

**STORAGE:** Store in labeled, tightly sealed containers in a cool, dry, well-ventilated area.

**ELECTROSTATIC ACCUMULATION HAZARD:** Not applicable.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES:**

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

	<b>EXPOSURE LIMITS</b>					
	<b>OSHA PEL</b>		<b>ACGIH TLV</b>		<b>Supplier OEL</b>	
	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>
Tetrachloroethylene	<b>TWA</b>	100		25		
	<b>STEL</b>	200 <sup>[1]</sup>		100		
Trade secret #2	<b>TWA</b>	NE <sup>[2]</sup>		NE		
	<b>STEL</b>	NE		NE		
Trade secret #3	<b>TWA</b>	NE		NE		
	<b>STEL</b>	NE		NE		

### TABLE FOOTNOTES:

1. Ceiling concentration. A 300 ppm peak concentration is allowed for 5 minutes in any 3-hour period.
2. NE = Not Established.

**ENGINEERING CONTROLS:** Good general ventilation should be sufficient to control airborne levels.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses with side shields, or goggles.

**SKIN:** Viton<sup>®</sup>, PVA, or Barrier<sup>™</sup> gloves.

**RESPIRATORY** NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**PROTECTIVE CLOTHING:** Where contact is likely, wear the appropriate chemical resistant equipment, which depending on circumstances may include gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling. Do not eat or drink in work area.

**OTHER USE PRECAUTIONS:** Have eye wash station available. Do not wear contact lenses without eye protection.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear.

**PHYSICAL STATE:** Liquid.

**COLOR:** Light yellow.

**ODOR:** Sweet, like ether.

**ODOR THRESHOLD:** No data available.

**pH:** No data available.

**FREEZING POINT:** No data available.

**INITIAL BOILING POINT:** No data available.

**FLASHPOINT:** None.

**EVAPORATION RATE:** No data available.

**FLAMMABILITY (Solid, Gas):** Not applicable, this product is a liquid at room temperature.

**FLAMMABLE LIMITS:** No data available.

**VAPOR PRESSURE:** No data available.

**VAPOR DENSITY:** No data available.

**RELATIVE DENSITY:** 1.152

**SOLUBILITY IN WATER:** Insoluble.

**PARTITION COEFFICIENT (Log  $K_{ow}$ ):** No data available.

**AUTOIGNITION TEMPERATURE:** No data available.

**DECOMPOSITION TEMPERATURE:** No data available.

**VISCOSITY:** No data available.

**PERCENT VOLATILE:** ~45

---

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** No.

**CHEMICAL STABILITY:** Stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Polymerization will not occur.

**CONDITIONS TO AVOID:** Exposure of vapors to high heat or open flames.

**INCOMPATIBLE MATERIALS:** Strong acids, oxidizers, aluminum, or other active metal.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, phosgene, and other toxic fumes may be produced from decomposition of vapors at high temperatures.

---

## 11. TOXICOLOGICAL INFORMATION

**ROUTES OF EXPOSURE:** Inhalation and skin.

### ACUTE TOXICITY (ATE)

**DERMAL LD<sub>50</sub>:** Insufficient data available.

**ORAL LD<sub>50</sub>:** > 2,000 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** Insufficient data available.

### CHRONIC TOXICITY

**TARGET ORGANS:** Overexposure may cause liver and kidney disorders.

**SENSITIZATION:** Insufficient data available.

### CARCINOGENICITY

**IARC:** Tetrachloroethylene is classified as 2A (Probably carcinogenic to humans).

**NTP:** Tetrachloroethylene is on the NTP list.

**OSHA:** Not listed as a carcinogen.

**OTHER:** ACGIH: A3. Tetrachloroethylene is classified as a confirmed animal carcinogen with unknown relevance to humans.

**OTHER:** No data available.

**REPRODUCTIVE EFFECTS:** Insufficient data available.

**MUTAGENICITY:** Insufficient data available.

**SYNERGISTIC MATERIALS:** No data available.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Insufficient data available.

**SKIN:** Insufficient data available.

**SKIN ABSORPTION:** No data available.

**INGESTION:** May be fatal if swallowed.

**ASPIRATION HAZARD:** Insufficient data available.

**INHALATION:** Harmful if inhaled.

**MEDICAL CONDITIONS AGGRAVATED:** Chronic diseases of the central nervous system, respiratory system, kidney, liver, skin, and eyes.

**GENERAL COMMENTS:** Refer to Section 3 of this SDS and the SDS provided by your tetrachloroethylene (perc) supplier for additional information on potential health effects.

---

**12. ECOLOGICAL INFORMATION**

**ECOTOXICITY:** A component of this product has moderate aquatic toxicity.

**PERSISTENCE AND DEGRADABILITY:** A component of this product is not readily biodegradable.

**BIOACCUMULATIVE POTENTIAL:** Insufficient data available.

**MOBILITY IN SOIL:** Insufficient data available.

**OTHER ADVERSE EFFECTS:** No data available.

---

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal, state and local authorities for approved procedures.

**EMPTY CONTAINER:** Not applicable.

**RCRA/EPA WASTE INFORMATION:** Contains material(s) listed by RCRA as a hazardous waste.

---

**14. TRANSPORT INFORMATION**

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Tetrachloroethylene

**TECHNICAL NAME:** None.

**PRIMARY HAZARD CLASS/DIVISION:** 6.1

**UN/NA NUMBER:** UN1897

**PACKING GROUP:** III

**LABEL:** Toxic, PG III

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 23 gal

**OTHER SHIPPING INFORMATION:** No data available.

**CANADA TRANSPORT OF DANGEROUS GOODS**

**PROPER SHIPPING NAME:** Tetrachloroethylene

**PRIMARY HAZARD CLASS/DIVISION:** 6.1

**UN/NA NUMBER:** UN1897

**PACKING GROUP:** III

**LABEL:** Toxic, PG III

**OTHER SHIPPING INFORMATION:** No data available.

**AIR (ICAO/IATA)**

**PROPER SHIPPING NAME:** Tetrachloroethylene

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN1897

**PACKING GROUP:** III

**LABEL:** Toxic

**PLACARD:** Consult applicable regulations governing air shipments.

**IATA NOTE:** Consult applicable regulations for packaging requirements and quantity limitations.

**15. REGULATORY INFORMATION**

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:**

**FIRE:** No. **PRESSURE GENERATING:** No. **REACTIVITY:** No. **ACUTE:** Yes.  
**CHRONIC:** Yes.

**313 REPORTABLE INGREDIENTS:** Tetrachloroethylene is reportable.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA RQ:** Tetrachloroethylene has an RG of 100 lbs.

**REPORTABLE SPILL QUANTITY:** 23 gals

**RCRA STATUS:** See section 13.

**MEXICO**

Not applicable.

**STATE REGULATIONS**

**MASSACHUSETTS**

Contains one or more substances regulated by the Massachusetts Substance List.

**CALIFORNIA**

**PROPOSITION 65 STATEMENT:** Tetrachloroethylene is on the Proposition 65 known to the State of California to cause cancer.

**16. OTHER INFORMATION**

<b>HMIS RATINGS</b>	
HEALTH:	2
FLAMMABILITY:	0
REACTIVITY:	0
PERSONAL PROTECTION:	H

**NFPA RATINGS**

