

**PARAGON**  
**SPECIALTY PRODUCTS, LLC.**  
411 Ranch Road  
Rainsville, AL 35986 USA

**Emergency Contact**  
**Chemtrec # 1-800-424-9300**

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PAGE 1 OF 4

**MATERIAL SAFETY DATA SHEET**

**AQUA SOURCE**  
**Perform Max (LIQUID)**

**Section 1 – Material Identification**

MANUFACTURER'S NAME & ADDRESS:  
Paragon Specialty Products, LLC.  
411 Ranch Road  
Rainsville, AL 35986 USA  
Tel: # (256) 638-9636 / Fax: # (256) 638-9637

CHEMICAL NAME AND SYNONYMS: (Perform Max, Daikin Acetic Acid, Copper and Zinc Chelate Lactic, Citric and Tannic Acid).

CHEMICAL FAMILY: Aliphatic Carboxylic Acid

**Section II – Hazardous Ingredients**

CAS NUMBER	CHEMICAL NAMES(S)	THRESHOLD LIMIT VALUES (UNITS)			
		OSHA:		ACGIH:	
		PEL	STEL	TLV	STEL
64-19-7 IFN 6-09-896 IFN 6-09-896 1401-55-4 50-21-5	Acetic Acid Copper Proteinate Zinc Proteinate Tannic Acid Lactic Acid	10 ppm	---	10 ppm	15 ppm
		Permissible Air Concentrations Permissible Air Concentrations LD <sub>50</sub> (oral, rat) 2260 mg./kg. Rabbit Oral LD50: >3730 mg./kg. Rabbit Dermal LD50: >7940 mg./kg. Rabbit, Eye Irritation: 750 mg. Severely Irritating Rabbit, Skin Irritation: 500 mg./24 hrs. Severely Irritating Oral-rat 11,700 mg./kg. Dermal acute 500 mg./24 hrs. Moderate Eye 750 mg./24 hrs. Severe			
77-92-9	Citric Acid				

**Date: 07/25/2000**  
**Revised Date: Jan.05.2009**

# Perform Max (Liquid)

\*\*This product does not contain any chemical (s) subject to reporting requirements of Section 313, Title III of SARA, Part 372.

## Section III – Physical Data

BOILING POINT (°F (°C)): >212 °F (>103 °C)      SPECIFIC GRAVITY (H<sub>2</sub>O=1): range 1.01 to 1.08

VAPOR DENSITY (AIR =1): 2.1      PERCENT VOLATILE BY VOLUME (%): 100%

VAPOR PRESSURE (mmHg 20°C): ≈ 14 mmHg      EVAPORATION RATE: (Butyl Acetate =1): 0.97

SOLUBILITY IN WATER: 100%      APPEARANCE AND ODOR: Clear, Blue green liquid, with sharp vinegar odor.

## Section IV – Fire And Explosion Hazard Data

FLASH POINT (METHOD USED): (TAG CLOSED CUP) 131 °F (84%): none (56%) Note: Aqueous solutions greater than 70% acetic acid are combustible. Acetic acid, 70% has a flash point of 140 – 145 °F (estimate).

FLAMMABLE LIMITS (% BY VOLUME): (For glacial acetic acid) Lower: 4, Upper: 16

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical and alcohol-type foams.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear protective clothing including self-contained breathing apparatus. Acetic acid reacts with most metals to liberate hydrogen gas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and can flow to sources of ignition.

## Section V – Health Hazard Data

### EFFECTS OF OVEREXPOSURE:

INHALATION: Highly corrosive to mucous membranes producing irritation, reddening and edema. Bronchitis, pulmonary edema and chemical pneumonia may result.

EYE CONTACT: Severe burns and permanent damage can result from contact with eyes.

SKIN CONTACT: Contact with skin can result in burns.

INGESTION: Burns to mucous membranes. There may be pain, vomiting, hemorrhage, and perforation of organs.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: NTP/No IARC/No OSHA/No

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## EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh air. Give artificial respiration if not breathing. Get prompt medical attention.

EYE CONTACT: Immediately flush eyes for a least 15 minutes while holding eyelids open. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing while flushing skin with plenty of water for at least 15 minutes. Get medical attention for irritation and burns.

INDESTION: DO NOT induce vomiting. It is important to obtain medical attention immediately. Give milk, water containing milk of magnesia, or olive oil.

## SECTION VI – REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Heat, sparks, and flames.

INCOMPATIBILITY (MATERIALS TO AVOID): Carbonates, phosphates, hydroxides, oxides, and strong oxidizers, strong alkali and amines, and metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide. Acetic acid reacts with most metals to liberate hydrogen gas.

## SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Personnel with proper protective equipment should contain spill. Water spray may be used to reduce vapors. Neutralize spill by covering with lime or soda ash. Remove to containers for disposal.

WASTE DISPOSAL METHOD: Disposal is to be in accordance with all federal, state and local regulations.

## SECTION VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH – Approved respirator.

VENTILATION: Local exhaust as required to maintain vapor concentrations below permissible limits.

PROTECTIVE GLOVES: Rubber gloves.

EYE PROTECTION: Chemical splash goggle and face shield.

OTHER PROTECTIVE EQUIPMENT: Acid Suit, safety shower, and eye wash fountain.

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## SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a dry, well ventilated area. Acetic acid solutions of greater than 70% acid are combustible. Store away from heat, sparks, and flames.

OTHER PRECAUTIONS: Wash thoroughly after handling. Do not get in eyes, on skin or clothing. Avoid breathing vapors. Keep containers closed. Use with adequate ventilation. DANGER!! CAUSES SEVERE BURNS TO SKIN AND EYES. REACTS VIOLENTLY WITH STRONG ALKALI. HARMFUL IF INHALED.

HAZARD RATING:

FOR: > 10% & < 50% Health 2

Flammability 1

Reactivity 1

## SECTION X – D.O.T. SHIPPING INFORMATION

FOR WITH MORE THAN 10% BUT NOT MORE THAN 50% ACID

PROPER SHIPPING NAME: Acetic Acid Solution    HAZARD CLASS: Limited Quantity    UN/NA: UN 3265

PACKING GROUP: Limited Quantity    D.O.T. LABEL REQUIRED: NONE

REPORTABLE QUANTITY OF PRODUCT: 5000 Pounds

**CORROSIVE LIQUIDS, ACIDIC,  
ORGANIC, n.o.s. (ACETIC ACID, LACTIC ACID), 8,  
UN 3265, PGIII, LIMITED QUANTITY**

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**End of Perform Max (Liquid)---MSDS  
USA**

**\*PATENT PENDING**

**IVESCO, LLC.**  
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