**Pacific Vet Group - USA**
**EMERGENCY CONTACT:**
**C/O Paragon Specialty Products**
**411 Ranch Road**
**Rainsville, Alabama 35986 USA**
**Tel: 256 638 - 9636**

**CHEMTREC**
**# 800 / 424 - 9300**


**MATERIAL SAFETY DATA SHEET**

# OPTIMIZER

## Section 1 – Material Identification

**MANUFACTURER'S NAME & ADDRESS:**
**Pacific Vet Group - USA**
**C/O Paragon Specialty Products, LLC.**
**411 Ranch Road**
**Rainsville, Alabama 35986 USA**
**Tel: # (256) 638-9636 / Fax: # (256) 638-9637**

CHEMICAL NAME AND SYNONYMS: (Acetic Acid, Propionic Acid, Lactic Acid, Caprylic Acid Mixture)
CHEMICAL FAMILY: Acid Salts

## Section II – Hazardous Ingredients

| | | THRESHOLD LIMIT VALUES (UNITS) | | | |
|---|---|---|---|---|---|
| CAS NUMBER | CHEMICAL NAMES(S) | OSHA: PEL | OSHA: STEL | ACGIH: TLV | ACGIH: STEL |
| 64-19-7 | Acetic Acid | 10 ppm | --- | 10 ppm | 15 ppm |
| 79-09-4 | Propionic Acid | 10 ppm, 8 hr TWA (ACGIH)<br>15 ppm, 15 min STEL(ACGIH) | | | |
| 124-7-02 | Caprylic Acid | 10 ppm | --- | 10 ppm | 15 ppm |
| IFN 6-09-896 | Copper Proteinate | Permissible Air Concentrations | | | |
| IFN 6-09-896 | Zinc Proteinate | Permissible Air Concentrations | | | |
| 50-21-5 | Lactic Acid | Rabbit Oral LD50: >3730 mg./kg.<br>Rabbit Dermal LD50: >7940 mg./kg.<br>Rabbit, Eye Irritation: 750 mg.<br>Severely Irritating<br>Rabbit, Skin Irritation: 500 mg./24 hrs.<br>Severely Irritating | | | |

Date: 2/07/2013

# OPTIMIZER

## Section III – Physical Data

BOILING POINT $^{0}$F ($^{O}$C): >212 $^{0}$F (>103 $^{o}$C)

SPECIFIC GRAVITY ($H_2O$=1): range 1.01 to 1.08

VAPOR DENSITY (AIR =1): 2.1

PERCENT VOLATILE BY VOLUME (%): 100%

VAPOR PRESSURE (mmHg 20 $^{O}$C): ≈ 14 mmHg

EVAPORATION RATE: (Butyl Acetate =1): 0.97

SOLUBILITY IN WATER: 100%

APPEARANCE AND ODOR: Clear, Blue green liquid, with sharp acrid odor.

## Section IV – Fire And Explosion Hazard Data

FLASH POINT (METHOD USED): (TAG CLOSED CUP) 131 $^{O}$F (84%): none (56%) Note: Aqueous solutions greater than 70% acetic acid are combustible. Acetic acid, 70% has a flash point of 140 – 145 $^{o}$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 pnuemonitis may result.

EYE CONTACT: Severe burns and permanent damage can result form 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

# OPTIMIZER

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 at 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.

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

## 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.

# OPTIMIZER

## 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

PROPER SHIPPING NAME: Corrosive liquid, Acidic, Organic, n.o.s..
HAZARD CLASS: Limited Quantity UN/NA: UN 3265

PACKING GROUP: Limited Quantity **D.O.T. LABEL REQUIRED**: None

REPORTABLE QUANTITY OF PRODUCT: 5000 Pounds

WHILE PARAGON SPECIALTY PRODUCTS, LLC. BELIEVES THAT THE INFORMATION CONTAINED HEREIN IF FACTUAL, IT IS NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH PARAGON SPECIALTY PRODUCTS, LLC. ASSUMES LEGAL RESPONSIBILITY. IT IS OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION AND VERIFICATION. ANY USE OF THIS INFORMATION DATA MUST BE DETERMINED BY THE USER TO BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.



Date: 2/07/2013