

MATERIAL SAFETY DATA SHEET

Product: 120E

Version 1.0

Revision Date: 03/13/2013

Print Date: 03/14/2013

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PRODUCT NAME: 120E

MSDS No.: 001

REVISION: 01

SECTION 1.PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 120E
MANUFACTURER: Rasirc, INC.
TELEPHONE #: 858-259-1220
ADDRESS: 7815 Silverton Avenue
Suite 2
San Diego CA 92126

SECTION 2.COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT: Hydrogen Peroxide
WEIGHT PERCENT: 5-30%
CAS NUMBER: 7722-84-1
EXPOSURE LIMIT: TWA: 1 mg/m³
SUSPECT CARCINOGEN: NO

INGREDIENT: Water
WEIGHT PERCENT: 0-2%
CAS NUMBER: 7732-18-5
EXPOSURE LIMIT: NONE
SUSPECT CARCINOGEN: NO

INGREDIENT: Proprietary Organic Solvent
WIEGHT PERCENT: 95-70% (w/w)
EXPOSURE LIMIT: TWA: 5 mg/m³
SUSPECT CARCINOGEN: NO

TOXIOLOGICAL DATA ON INGREDIENTS

Component: Proprietary Organic Solvent:

ORAL (LD50): Acute: 8600 mg/kg [Rat]. 6172 mg/kg [Mouse]. 1000 mg/kg [Rabbit].

Component: Hydrogen Peroxide:

ORAL (LD50): Acute: 2000 mg/kg [Mouse].

DERMAL (LD50): Acute: 4060 mg/kg [Rat]. 2000 mg/kg [pig].

VAPOR (LC50): Acute: 2000 mg/m³ 4 hours [Rat].

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Section 3: HAZARDS IDENTIFICATION**Proprietary Organic Solvent:****Potential Acute Health Effects:**

Hazardous in case of skin contact (irritant), eye contact (irritant), ingestion, and inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal) by ACGIH.

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Hydrogen Peroxide:**Potential Acute Health Effects:**

Very hazardous in case of skin contact (irritant), and of eye contact (irritant). Hazardous in case of skin contact (corrosive), and of eye contact (corrosive). Slightly hazardous in case of inhalation (lung sensitizer). Liquid or mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the vapors may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Prolonged exposure may result in skin burns and ulcerations. Over exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to lungs, mucous membranes.

Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 4. FIRST AID MEASURES**Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE AND EXPLOSION DATA

Flammability of the Product: May be combustible at high temperature.

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Component: Proprietary Organic Solvent
457.22°C

Flash Points:

Component: Proprietary Organic Solvent
CLOSED CUP: 117°C
OPEN CUP: 160°C

Flammable Limits: Not available

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of open flames and sparks, of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in

presence of static discharge: Not available.

Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters:

Wear self contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Do not use combustible materials, materials containing cellulose, only use inert material. Contain spillage, and then collect by wet-brushing and place in container for disposal according to local regulations.

7. HANDLING AND STORAGE**Precautions for safe handling**

Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, combustible materials, organic materials, metals, acids, alkalis.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Component	Value	Control Parameters
Proprietary Organic Solvent	TWA	5 mg/m ³

Component	CAS#	Value	Control Parameters
Hydrogen Peroxide	7722-84-1	TWA	1 ppm

Personal Protection: Safety glasses, lab coat, nitrile gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear oily liquid

Boiling Point: >140°C (>284°F)

Odor: Not available

Specific Gravity: approximately 0.90

pH: Between 4.5 and 7

Volatility: Not available

Solubility: Not available

10. STABILITY AND REACTIVITY

Stability: Stable at the recommended storage conditions.

Instability Temperature: Not available

Conditions of Instability: Incompatible materials, excessive heat

Incompatibility: Reactive with reducing agents, organic material, most metals, acids, alkalis.

11. TOXICOLOGICAL INFORMATION

Summary of Risks: Acute, chronic oxidizer. Medical conditions include dermatitis and respiratory ailments.

Primary Routes of Entry: Contact with skin, or eyes, and inhalation.

Toxicity to Animals:

Component: Hydrogen Peroxide

Acute oral toxicity (LD50): 6667 mg/kg (Mouse) (Calculated value for the mixture).

Acute dermal toxicity (LD50): 6667 mg/kg (pig) (Calculated value for the mixture).

Component: Proprietary Organic Solvent

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Acute oral toxicity (LD50): 1000 mg/kg [Rabbit]

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH [Hydrogen Peroxide].

Classified 3 (Not classifiable for human.) by IARC [Hydrogen Peroxide].

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Hydrogen Peroxide].

Mutagenic for bacteria and/or yeast. [Hydrogen Peroxide].

12. ECOLOGICAL INFORMATION**Ecotoxicity:** Not available.**BOD5:** Not available**COD:** Not available**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available**Special Remarks on the Products of Biodegradation:** Not available

13. DISPOSAL CONSIDERATIONS**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORT INFORMATION**DOT (US)**

UN number: 3098 Class: 5.1 (8) Packing group: II

Proper shipping name:

Oxidizing liquid, corrosive, n.o.s. (Sample)

Reportable Quantity (RQ): 1000 lbs [Proprietary Organic Solvent]

Marine pollutant: No

Poison Inhalation Hazard: No

IATA

UN number: 3098 Class: 5.1 (8) Packing group: II

Proper shipping name:

Oxidizing liquid, corrosive, n.o.s. (Sample)

IMDG

UN number: 3098 Class: 5.1 (8) Packing group: II

Proper shipping name:

Oxidizing liquid, corrosive, n.o.s. (Sample)

Marine pollutant: No

15. REGULATORY INFORMATION**OSHA Hazards**

Oxidizer, Target Organ Effect, Toxic by ingestion, Corrosive

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

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Hydrogen peroxide
CAS-No.: 7722-84-1

SARA 313 Components

NONE

SARA 311/312 Hazards

Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

This material safety data sheet is offered for you information, and investigation. All information and recommendations are believed to be accurate as of the date hereof, Rasirc, Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

This material has been prepared to comply with title 29 CFR, part 1920.1200 and OSHA hazard communication standard,