



# 1C HUMIDIFIER CLEANER

- Inhalation
  - Remove person to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, resuscitate and seek medical attention.
- Ingestion
  - If ingested, DO NOT INDUCE VOMITING. Have patient lie down and keep warm. Vomiting may lead to severe damage to esophagus, which may be fatal. Give large amounts of water. Give at least one ounce of milk of magnesia or aluminum hydroxide gel in an equal amount of water; if unavailable give the white of two or three eggs. NEVER give anything by mouth to an unconscious person.

## **Section 5, Fire-fighting Measures**

- Flash Point: N/A      Method Used: N/A
- Flammability Classification
  - Non-Combustible
- Fire and Explosion Hazards
  - Product reacts with most metals producing hydrogen, which is extremely flammable and may explode.
- (NFPA) National Fire Protection Association - Hazard Information
  - Health-3      Flammability-0      Reactivity-0
- Handling Precautions
  - Use only with adequate ventilation. Do not store above 49C/120F.

## **Section 6, Accidental Release Measures**

- **Use of Personal Precautions:**
  - Ventilation:
    - Use local exhaust to capture excessive vapor, mists or fumes.
  - Respiratory Protection:
    - Use supplied-air respiratory protection in confined or enclosed spaces.
  - Mechanical (General):
    - OSHA acceptable
  - Protective Gloves:
    - Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.
  - Eye Protection:
    - Use splash goggles or face shield when eye contact may occur.
  - Other Protective Equipment:
    - Use chemical resistant apron or other impervious clothing at all times when using or transporting this product to avoid contact.
- **Emergency Procedures:**
  - Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period.
  - Remove and wash contaminated clothing before reuse.
  - Discard contaminated shoes
- **Methods and Materials used for containment:**
  - Keep container tightly closed and upright when not in use to prevent leakage. KEEP OUT OF REACH OF CHILDREN.
- **Additional Information:**
  - Persons with severe skin, liver or kidney problems should avoid use.
- **Cleanup Procedures**
  - Wear gloves and clean up spills immediately
  - Discard cleaner in toilet – do not put in the sink

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## Section 7, Handling and Storage

- **Precautions for safe handling:**
  - Wash hands after exposure and before eating or drinking
- **Recommendations on safe storage:**
  - Keep container tightly closed and upright when not in use to prevent leakage
- **Ventilation:**
  - Use local exhaust to capture excessive vapor, mists or fumes.

## Section 8, Exposure controls/personal protection

### Effects of Overexposure: (Signs and Symptoms of Exposure)

#### **POISON-CALL PHYSICIAN IMMEDIATELY!**

- Eye Contact
  - Product contacting the eyes may cause redness, tearing and severe burns. Rinse eyes thoroughly for 30 minutes. Seek medical attention.
- Skin Contact
  - Contact with skin may cause severe burns to the skin, defatting, and dermatitis if not washed immediately.
- Inhalation
  - After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.
- Ingestion
  - If swallowed, **DO NOT INDUCE VOMITING!** Mouth may be rinsed with water. If swallowed, give large quantities of water. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately.
- Cancer Hazard
  - This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA, or ACGIH as of this date, greater or equal to 0.1%.

## Section 9, Physical and Chemical Properties

The following data are approximate or typical values and should be used for precise design purposes.

Appearance	Clear, Light Blue
Auto-ignition Temperature	N/A
Boiling Range	81 97 100*deg. C/178 206 212*deg. F (*=End Point)
Decomposition Temperature	N/A
DKB (Dispersion)	N/A
Dry Time (Ether=1)	Long
Evaporation Rate	N/A
Explosive Limits	N/A
Flash Point	N/A
Flammability	0
Freezing Point	Below 20 Degrees F
Odor	Mild
Odor Threshold	N/A
pH	N/A
Melting Point	N/A
Partition Coefficient: n-octanol/water	N/A
Relative Density	8.658
Solubility	Complete
Vapor Density (Air=1)	0.8
Vapor Pressure (mm of HG)@20 C	16.5

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Viscosity	N/A
Water Absorption	Complete

## **Section 10, Stability and Reactivity**

- **Reactivity**
  - Reacts with most metals producing hydrogen, which is extremely flammable and may explode.
- **Chemical Stability**
  - Stable
- **Other**
  - Conditions to Avoid: Isolate from oxidizers, heat, and open flame.
  - Materials to Avoid: Isolate from Alkalies, Amines, and non-resistant metals.
  - Hazardous: Carbon Monoxide, Carbon Dioxide.
  - Decomposition: Hydrogen Chloride, Phosgene from heating.

## **Section 11, Toxicological Information**

- Information on likely routes of Exposure
  - Eye Contact- product contacting the eyes may cause redness, tearing and severe burns. Rinse eyes thoroughly for 30 minutes. Seek medical attention.
  - Skin Contact- contact with skin may cause severe burns to the skin, defatting, and dermatitis if not washed immediately.
  - Inhalation- after high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.
  - Ingestion- if swallowed, **DO NOT INDUCE VOMITING!** Mouth may be rinsed with water. If swallowed, give large quantities of water. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately.
- Delayed, Immediate or Chronic effects not determined

## **Section 12, Ecological Information**

Lowest Known LD50 (ORAL) 0 3000mg/kg (Rats)

## **Section 13, Disposal Considerations**

- Discard cleaner in toilet, not in sink or bath tub.
- Steps to be taken in case of material is released or spilled
  - Avoid personal contact.
  - Stop spill at source.
  - Dike area and contain.
  - Neutralize with soda ash and dilute with plenty of water.
  - Pump liquid to salvage tank.
  - Remaining residue may be taken up on absorbent material and shoveled into containers. Dispose of in accordance with all local, state and federal regulations.

### **ATTENTION:**

THIS CONTAINER HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN VAPOR OR LIQUID RESIDUES, ALL HAZARD PRECAUTIONS MUST BE OBSERVED.

## **Section 14, Transportation Information**

- For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

## **Section 15, Regulatory Information**

- Non-regulated material

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### **Section 16, Other Information**

Legal responsibility is assumed only for the fact that all studies reported are those of qualified experts. Buyer assumes all risk and liability. He accepts and uses this material on these conditions. He must keep a copy of this MSDS where material is handled

N. A. (not applicable)

N. D. (not determined)

N. K. (not known)

Revised date 05/04/15

RPS Products (herein called RPS) has been asked to supply the attached Material Safety Data Sheet ("MSDS") despite the fact that some of the data contained therein is based on information supplied to RPS by third parties and the fact that RPS cannot anticipate all of the conditions of use and application with the respect to the product described in the MSDS. Although RPS has made a good faith effort in filling out the MSDS and believes the information, data and suggestions contained therein to be reliable, RPS DOES NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE ACCURACY OF THE DATA CONTAINED IN THE MSDS. RPS DISCLAIMS ANY AND ALL RESPONSIBILITY FOR ANY USE OF OR RELIANCE ON SUCH DATA.