

1C HUMIDIFIER CLEANER

RPS Products, Inc.
281 Keyes Avenue, Hampshire, IL 60140
(847-683-3400)

MATERIAL SAFETY DATA SHEET

A. Identification and Emergency Information

Product Identity: 1C Humidifier Cleaner

Emergency Telephone Numbers: R.P.S. Products 847-683-3400
Chemtrec 800-424-9300

B. Components and Hazard Information

Hazardous Components (Specific Chemical Identity)				
(Common name(s))	CAS Number	OSHA PEL	ACGIH TLV	%Percent
Hydrochloric/ Muriatic Acid	7647-01-0	5ppm	5ppm	11(302,311, 312, 313)

HMS (Hazardous Materials Identification System)
Health = 3 Flammability = 0 Reactivity = 0

C. Emergency and First Aid Procedures

Eye Contact

Immediately flush eyes with plenty of flowing water for 30 minutes lifting upper and lower lids. Remove contact lenses if applicable. Seek medical attention immediately.

Skin Contact

Immediately flush with plenty of soap and water for at least 30 minutes. If irritation develops, seek medical attention.

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.

D. Fire and Explosion Hazard Information

Flash Point: N/A Method Used: N/A

Flammability Classification

Non-Combustible

Fire and Explosion Hazards

Reacts with most metals producing hydrogen, which is extremely flammable and may

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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.

E. Health and Hazard Information

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%.

F. Physical Data

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

Boiling Range	81 97 100*deg. C/178 206 212*deg. F (*=End Point)
API Gravity	4.6
Specific Gravity (Water=1)	1.039
Pounds/Gallon	8.658
Vapor Pressure (mm of HG)@20 C	16.5
Vapor Density (Air=1)	0.8
Water Absorption	Complete
Acid Absorption (85% H2SO4)	Complete
Dry Time (Ether=1)	Long
% Volatile by VOL	98.0
Appearance	Clear, Light Blue
Odor	Mild
Reactive Index	1.325

G. Reactivity

Stable, but reacts with most metals producing hydrogen, which is extremely flammable and may explode.

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.

H. Spill or Leak Procedures

STEPS TO BE TAKEN IN CASE 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.

I. Protection and 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.

Work Practices/Engineering Controls:

Keep container tightly closed and upright when not in use to prevent leakage. KEEP OUT OF REACH OF CHILDREN.

Personal Hygiene:

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) Maintain good personal hygiene.

Additional Information:

Persons with severe skin, liver or kidney problems should avoid use,

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J. 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.

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

ATTENTION:

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

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 11/01/05

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.