

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name

Evap Pow'R RTU (4169)

NU Calgon Evap POW'R

CAS#

Mixture

Evaporator Coil Cleaner

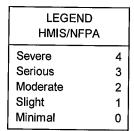
Product use Manufacturer

Nu-Calgon 2008 Altom Court

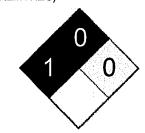
St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)







2. Hazards Identification

Emergency overview

WARNING

EYE AND SKIN IRRITANT.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

Eyes

May cause irritation.

May cause irritation. May be absorbed through the skin.

NIOSH - Pocket Guide - Skin Notations

Ethylene glycol monobutyl ether

111-76-2

Potential for dermal absorption

Inhalation

Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness).

Ingestion **Target organs**

May cause stomach distress, nausea or vomiting. Blood. Eyes. Kidney. Liver. Respiratory system. Skin.

Chronic effects

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms

Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium xylene sulphonate	1300-72-7	1 - 5
Ethylene glycol monobutyl ether	111-76-2	0.5 - 1.5

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

Skin contact

Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation

If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical

attention. If breathing has stopped, trained personnel should administer CPR

immediately.

Ingestion

Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

Notes to physician General advice

Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Extinguishing media

Not flammable by WHMIS/OSHA criteria.

Suitable extinguishing media

Water spray. Fog. Dry chemical. Carbon dioxide.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

Sensitivity to mechanical

Not available

impact

Sensitivity to static discharge

Not available

6. Accidental Release Measures

May include and are not limited to: Oxides of carbon.

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Avoid allowing water runoff to contact spilled material.

Methods for cleaning up

Remove sources of ignition. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling Storage

Use good industrial hygiene practices in handling this material.

Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits	
Ingredient(s)	

Exposure Limits

Ethylene glycol monobutyl ether

ACGIH-TLV TWA: 20 ppm **OSHA-PEL**

TWA: 50 ppm

Sodium xylene sulphonate

ACGIH-TLV Not established

OSHA-PEL

Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

Wear chemical protective equipment that is specifically recommended by the

manufacturer. As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance Clear. Color Green **Form** Liquid Odor butyl

Odor threshold Not available Physical state Liquid

Ηа 8 (Concentrate) **Melting point** Not available Freezing point 0 °C (32.00 °F) **Boiling point** 100 °C (212.00 °F)

Flash point None to boiling **Evaporation rate** Not available Flammability limits in air, lower, % Not available

by volume

Not available

Flammability limits in air, upper, % by volume

Vapor pressure

Not available

Vapor density Not available

Specific gravity

Octanol/water coefficient Not available Solubility (H2O) Complete Auto-ignition temperature Not available VOC (Weight %) Not available Viscosity Not available

Percent volatile

97

10. Chemical Stability & Reactivity Information

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Do not mix with other chemicals.

Incompatible materials

Acids. Oxidizers.

Hazardous decomposition products

May include and are not limited to: Oxides of carbon.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)

LC50

Ethylene glycol monobutyl ether

2.21 mg/l/4h rat

Sodium xylene sulphonate

Not available

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Component analysis - Oral LD50

Ingredient(s)

LD₅₀

Ethylene glycol monobutyl ether 470 mg/kg rat; 320 mg/kg rabbit Sodium xylene sulphonate 7200 mg/kg rat

Effects of acute exposure

Eye

May cause irritation.

Skin

May cause irritation. May be absorbed through the skin.

NIOSH - Pocket Guide - Skin Notations

Ethylene glycol monobutyl ether

111-76-2

Potential for dermal absorption

Inhalation

Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness).

Ingestion

May cause stomach distress, nausea or vomiting.

Sensitization Chronic effects Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity

Non-hazardous by WHMIS/OSHA criteria.

ACGIH - Threshold Limit Values - Carcinogens

Ethylene glycol monobutyl ether

111-76-2

A3 - Confirmed animal carcinogen with unknown relevance to humans

IARC - Group 3 (Not Classifiable) Ethylene glycol monobutyl ether

111-76-2

Monograph 88 [2006]

Mutagenicity Reproductive effects Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity

Non-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data

Ethylene glycol monobutyl ether

111-76-2

96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]

Ecotoxicity - Water Flea Data

Ethylene glycol monobutyl ether

111-76-2

24 Hr EC50 water flea: 1720 mg/L; 24 Hr LC50 Daphnia magna: 1698-1940 mg/L

Environmental effects

Aquatic toxicity

Not available Not available

Persistence / degradability Bioaccumulation / accumulation Not available Not available

Partition coefficient

Not available Not available

Mobility in environmental media

Not available

Chemical fate information

13. Disposal Considerations

Waste codes

Not available

Disposal instructions

Consult authorities before disposal. Dispose in accordance with all applicable

regulations.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Ethylene glycol monobutyl ether

111-76-2

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Ethylene glycol monobutyl ether

111-76-2

1 Lb statutory RQ (no final RQ is being assigned to the generic or broad class. Includes mono- and di- ethers of ethylene glycol, diethylene glycol and triethylene glycol R-(OCH2CH2)n-OR" where n = 1, 2 or 3, R = alkyl or aryl groups, R" = R h or groups which when removed yield glycol ethers with the structure R-(OCH2CH2)n-OH. Polymers are

excluded from glycol category); 0.454 k

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Ethylene glycol monobutyl ether

111-76-2

1.0 Percent de minimis concentration (applies to R-(OCH2CH2)n-OR' ethers, where $n=1,2, {\rm or} 3, {\rm R=alkyl}$ C7 or less or R = phenyl or alkyl subst. phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Not available

Clean Water Act (CWA)

Not available

Safe Drinking Water Act (SDWA)

Not available

Drug Enforcement Agency (DEA)

Not available

Food and Drug Administration

Not available

(FDA)

Not available

WHMIS status

Controlled

WHMIS classification

Class D - Division 2B

WHMIS labeling



State regulations

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

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Ethylene glycol monobutyl ether

111-76-2 U.S. - Illinois - Toxic Air Contaminants

Ethylene glycol monobutyl ether 111-76-2 Present U.S. - Louisiana - Reportable Quantity List for Pollutants

Ethylene glycol monobutyl ether 111-76-2 100 Lb RQ

Present

U.S. - Massachusetts - Right To Know List

Ethylene glycol monobutyl ether 111-76-2 Present

U.S. - Minnesota - Hazardous Substance List

Ethylene glycol monobutyl ether

Skin

U.S. - New Jersey - Right to Know Hazardous Substance List

Ethylene glycol monobutyl ether

111-76-2

111-76-2

sn 0275

U.S. - Pennsylvania - RTK (Right to Know) List Ethylene glycol monobutyl ether

111-76-2

111-76-2

Present

Toxic (skin)

U.S. - Rhode Island - Hazardous Substance List

Ethylene glycol monobutyl ether

Inventory name

Country(s) or region

Inventory name

On inventory (yes/no)*

Canada Canada Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL)

Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

No Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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