

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Evap Pow'R RTU (4169)

CAS # Mixture

Product use Evaporator Coil Cleaner

Manufacturer Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

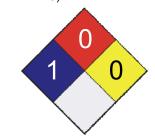
Phone: 314-469-7000 / 800-554-5499

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

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





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.

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).

IngestionMay cause stomach distress, nausea or vomiting.Target organsBlood. 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

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media Water spray. Fog. Dry chemical. Carbon dioxide.

Unsuitable extinguishing media Not available

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

ipparatus:

Hazardous combustion products

Explosion data

Sensitivity to mechanical impact

Not available

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

Use good industrial hygiene practices in handling this material.

Storage 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

Wear safety glasses with side shields. Eye / face protection

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Wear chemical protective equipment that is specifically recommended by the Skin and body protection

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

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

Odor threshold Not available Physical state Liquid

8 (Concentrate) pН **Melting point** Not available 0 °C (32.00 °F) Freezing point **Boiling point** 100 °C (212.00 °F) Flash point None to boiling Not available **Evaporation rate** Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Not available Vapor pressure Not available Vapor density

Specific gravity

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

10. Chemical Stability & Reactivity Information

Stable under recommended storage conditions. Chemical stability

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Acids. Oxidizers.

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

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50 LC50 Ingredient(s) Ethylene glycol monobutyl ether 2.21 mg/I/4h rat

Sodium xylene sulphonate Not available Component analysis - Oral LD50

LD50 Ingredient(s)

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

Effects of acute exposure

May cause irritation. Eve

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

Excessive intentional inhalation may cause respiratory tract irritation and central Inhalation

nervous system effects (headache, dizziness).

Ingestion May cause stomach distress, nausea or vomiting.

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

ACGIH - Threshold Limit Values - Carcinogens

Ethylene glycol monobutyl ether 111-76-2

IARC - Group 3 (Not Classifiable)

A3 - Confirmed animal carcinogen with unknown relevance to humans

Ethylene glycol monobutyl ether 111-76-2 Monograph 88 [2006]

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

12. Ecological Information

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

concerns.

Ecotoxicity - Freshwater Fish Species Data

Ethylene glycol monobutyl ether **Ecotoxicity - Water Flea Data**

111-76-2 96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]

Ethylene glycol monobutyl ether 111-76-2 24 Hr EC50 water flea: 1720 mg/L; 24 Hr LC50 Daphnia magna: 1698-1940 mg/L

Not available **Environmental effects** Not available Aquatic toxicity Persistence / degradability Not available Not available Bioaccumulation / accumulation Not available Partition coefficient 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

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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 1 %

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, or 3, 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 Ye

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)

Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Not available

Not available

Not available

Not available

(FDA)

Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling

WHMIS status



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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 Present

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

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 111-76-2 Skin **U.S. - New Jersey - Right to Know Hazardous Substance List**Ethylene glycol monobutyl ether 111-76-2 sn 0275

U.S. - Pennsylvania - RTK (Right to Know) List

Ethylene glycol monobutyl ether 111-76-2 Present

U.S. - Rhode Island - Hazardous Substance List

Ethylene glycol monobutyl ether 111-76-2 Toxic (skin)

Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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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