

#### **MATERIAL SAFETY DATA SHEET**

## 1. Product and Company Identification

Product Name Evap-Green (4191)

CAS # Mixture

Product use Evaporator Coil Cleaner / Degreaser

Manufacturer Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

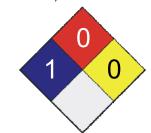
Phone: 314-469-7000 / 800-554-5499

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 CAUTION

EYE AND SKIN IRRITANT.

Potential short term health effects

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.
Skin May cause irritation.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** May cause stomach distress, nausea or vomiting.

Target organs Eyes. 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
Alcohols, C9-11, ethoxylated	68439-46-3 0.	5 - 1.5

#### 4. First Aid Measures

First aid procedures

**Eye contact** Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

**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.

**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 Symptoms may be delayed.

#18466 Page 1 of 5 Issue date 28-Aug-2008

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. Avoid contact with eyes and skin. Keep out of reach of children.

## 5. Fire Fighting Measures

Not flammable by WHMIS/OSHA criteria. Flammable properties

**Extinguishing media** 

Dry chemical. Alcohol foam. Carbon dioxide. Fog. Suitable extinguishing media

Unsuitable extinguishing media No}^

**Protection of firefighters** 

Specific hazards arising from

the chemical

No} ^

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

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

apparatus.

**Hazardous combustion products** 

**Explosion data** 

Sensitivity to mechanical

impact

No

Sensitivity to static discharge

No

#### 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, Methods for containment

basements or confined areas.

Before attempting clean up, refer to hazard data given above. Small spills may be Methods for cleaning up

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

Use good industrial hygiene practices in handling this material. Handling

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

materials.

# 8. Exposure Controls / Personal Protection

**Exposure limits** 

Ingredient(s) **Exposure Limits** 

Alcohols, C9-11, ethoxylated **ACGIH-TLV** 

No}^ **OSHA-PEL** 

No}^

**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.

As required by employer code. Skin and body protection

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

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.

#18466 Page 2 of 5 Issue date 28-Aug-2008 9. Physical & Chemical Properties

liquid. **Appearance** Color Colorless Liquid Form

Odor Characteristic, Mild

Odor threshold No}^ Liquid Physical state

8.5 (Concentrate) Ηq

**Melting point** No}^

`€ÁxÔÁCHCHÈE€ÁxØD Freezing point 100 °C (212.00 F°) **Boiling point** Flash point None to boiling **Evaporation rate** as water None

Flammability limits in air, lower, %

by volume

Flammability limits in air, upper, % None

by volume

Not avai lable Vapor pressure Not avai lable Vapor density

Specific gravity 1.00

Octanol/water coefficient Not available Complete Solubility (H2O) Auto-ignition temperature None

Less than 5cps Viscosity

96% Percent volatile

## 10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Do not mix with other chemicals. Conditions to avoid

Incompatible materials

Hazardous decomposition products

Possibility of hazardous reactions

Acids. Oxidizers. May include and are not limited to: Oxides of nitrogen. Oxides of carbon. Ammonia.

Hazardous polymerization does not occur.

## 11. Toxicological Information

Acute effects Information in this section is based on individual component information and not based

on overall formula testing data. Please note that the below values are calculated.

Acute LD50: 11067 mg/kg estimated, Rat, Oral Acute LD50: 58824 mg/kg estimated, Rat, Dermal Acute LC50: 455 mg/l/4h estimated, Rat, Inhalation

Component analysis - LC50

Ingredient(s) **LC50** 

5 mg/l/4h rat Alcohols, C9-11, ethoxylated

Component analysis - Oral LD50

Ingredient(s) **LD50** 

Alcohols, C9-11, ethoxylated 1200 mg/kg rat

Effects of acute exposure

Eye May cause irritation. Skin May cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

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

CarcinogenicityNon-hazardous by W HMIS/OSHA criteria.MutagenicityNon-hazardous by W HMIS/OSHA criteria.Reproductive effectsNon-hazardous by W HMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

## 12. Ecological Information

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

concerns. Information in this section is based on individual component information and

not based on overall formula testing data.

Alcohols, C9-11, ethoxylated (CAS# 68439-46-3) has an LC50 of;

70,7 mg/l, Rainbow Trout, 96.00 Hours

Environmental effects

This product has not been tested.
This product has not been tested.

Persistence / degradability

This product has not been tested. Alcohols, C9-11, ethoxylated (CAS# 68439-46-3) is

readily biodegradable as per OECD 301D.

Bioaccumulation / accumulation

Partition coefficient

Aquatic toxicity

This product has not been tested.

This product has not been tested.

Mobility in environmental media

Chemical fate information

This product has not been tested. This product has not been tested.

## 13. Disposal Considerations

Waste codes None/ Not hazardous by RCRA or DOT standards

Disposal instructions

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.

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

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

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

#18466 Page 4 of 5 Issue date 28-Aug-2008

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not hazardous

Clean Water Act (CWA)

This product does not contain any CWA hazardous ingredients.

Safe Drinking Water Act (SDWA)Not availableDrug Enforcement Agency (DEA)Not applicableFood and Drug AdministrationNot applicable

(FDA)

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.

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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Prepared by Nu-Calgon Technical Service (314) 469-7000