

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name Evap-Green (4191-01, 4191-08)

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)

2. Hazards Identification

Emergency overview CAUTION

MAY CAUSE SKIN IRRITATION. MAY CAUSE EYE IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

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 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, oedema, drying, defatting and cracking of the skin. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

3. Composition/Information on Ingredients

Components	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. If vomiting occurs naturally, have victim lean forward to reduce risk of

aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical

attention.

Notes to physician Symptoms may be delayed.

General advice 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

Flammable properties

Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing

media

Dry chemical. Alcohol foam. Carbon dioxide. Fog.

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

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

Explosion data

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

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.

Environmental precautions

Methods for containment

Do not discharge into lakes, streams, ponds or public waters.

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or

confined areas.

Methods for cleaning up 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 to original containers for re-use.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

> When using do not eat or drink. Avoid contact with skin and clothing.

Avoid contact with eyes.

Avoid breathing vapours or mists of this product.

Use only with adequate ventilation. Wash thoroughly after handling. Keep container tightly closed.

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

8. Exposure Controls/Personal Protection

Exposure limits Chemicals listed in section 3 that are not listed here do not have established limit values for

ACGIH.

Engineering controls General ventilation normally adequate.

Personal protective equipment

Eye/Face protection

Wear safety glasses with side shields.

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

Skin and body protection Respiratory protection

As required by employer code.

General hygiene

considerations

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

Handle in accordance with good industrial hygiene and safety practices. When using do not eat or

drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance Liquid Colourless Colour Liquid **Form**

Odour Characteristic, Mild Not available. **Odour threshold**

Liquid. Physical state

8.5 (Concentrate) pН

Freezing point

Boiling point

Not available.

Pour point

Not available.

Evaporation rate

Flash point

Auto-ignition temperature

Flammability Limits in Air,

Not available.

Not available.

Not available.

Upper, % by Volume

Flammability Limits in Air, Lower, % by Volume

Not available

Heat of combustionNot available.Vapour pressureNot availableVapour densityNot available

Specific gravity 1.34

Partition coefficient This product has not been tested.

(n-octanol/water)Not availableSolubility (Water)Not availableRelative densityNot availableViscosityNot availableVOCNot availablePercent volatileNot available

10. Stability and Reactivity

Reactivity This product may react with strong oxidising agents.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

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 nitrogen. Oxides of carbon. Ammonia.

11. Toxicological Information

Toxicological data

Components Species Test results

Alcohols, C9-11, ethoxylated (CAS 68439-46-3)

Acute

Dermal

 LD50
 Rabbit
 2000 mg/kg

 Rat
 2000 mg/kg

Inhalation

LC50 Rat 5 mg/l/4h

Oral

LD50 Rat 1200 mg/kg

Effects of acute exposure

Eye contact May cause irritation.

Skin contact May cause irritation.

Inhalation May cause respiratory irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitisation Non-hazardous by WHMIS criteria.

Chronic effects Non-hazardous by WHMIS criteria.

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

Name of Toxicologically **Synergistic Products**

Not available.

12. Ecological Information

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

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

formula testing data.

Ecotoxicological data

Components **Species Test results**

Alcohols, C9-11, ethoxylated (CAS 68439-46-3)

Rainbow trout 70.7 mg/l, 96 Hours

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 2.9 - 8.5 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 6 - 12 mg/l, 96 hours

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

biodegradable as per OECD 301D.

Bioaccumulation/accumulation

Mobility in environmental

This product has not been tested.

This product has not been tested.

media **Environmental effects**

Aquatic toxicity

Partition coefficient

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

Chemical fate information This product has not been tested.

13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

14. Transport Information

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.

WHMIS status

Controlled

WHMIS Classification

Class D - Division 2B

WHMIS labeling



Inventory status

Canada

Country(s) or region **Inventory Name** On Inventory (Yes/No)*

Canada Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL)

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

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH /	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	х



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 Phone: (314) 469-7000

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the

document.