



## 1. Product and Company Identification

Product Name Green Clean (4186)

CAS # Mixture

Product use 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 WARNING

CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION.

Potential short term health effects

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

Eyes Causes irritation.
Skin Causes irritation.

**ACGIH - Threshold Limit Values - Skin Notations** 

Dipropylene glycol methyl ether 34590-94-8 Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations

Dipropylene glycol methyl ether 34590-94-8 Potential for dermal absorption Inhalation May cause respiratory tract irritation.

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

**Target organs** Eyes. 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.

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

Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
2-Propanol, 1-butoxy- Alcohols,	5131-66-8	1 - 5
C7-21, ethoxylated Dipropylene	68991-48-0	1 - 5
glycol methyl ether Sodium	34590-94-8	1 - 5
carbonate	497-19-8	1 - 5
Sodium lauriminodipropionate	14960-06-6	1 - 5
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/OSHA criteria.

**Extinguishing media** 

Suitable extinguishing media Water spray. 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** 

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

**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** 

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

Methods for containment

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** Do not get in eyes, on skin or on clothing.

Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

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

materials.

8. Exposure	Controls <i>I</i>	/ Personal	<b>Protection</b>
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Exposure limits		
Ingredient(s)	Exposure Limits	
2-Propanol, 1-butoxy-	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Alcohols, C7-21, ethoxylated	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Alcohols, C9-11, ethoxylated	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Dipropylene glycol methyl ether	ACGIH-TLV	
	TWA: 100 ppm	
	STEL: 150 ppm	
	Skin: 100 ppm	
	OSHA-PEL	
	TWA: 100 ppm	
Sodium carbonate	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Sodium lauriminodipropionate	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	As required by employer code.	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Avoid breathing mists or vapors.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.	

# 9. Physical and Chemical Properties

Appearance	Clear
Color	Green
Form	Liquid
Odor	Lime.
Odor threshold	Not available
Physical state	Liquid
pH	10.5
Melting point	Not available
Freezing point	Not available
Boiling point	Not available

#18528 Page 3 of 6 Issue date 26-Jan-2012

Pour point

Evaporation rate

Flash point

Auto-ignition temperature

Flammability limits in air, lower, % by volume

Not available
Not available
Not available

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure
Vapor density
Not available
Specific gravity
Not available
Octanol/water coefficient
Not available
Solubility (H2O)
Not available
VOC (Weight %)
Not available
Viscosity
Not available

Bulk density 8.63

Percent volatile Not available

#### 10. Stability and Reactivity

**Reactivity** This product may react with strong oxidizing agents.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

**Conditions to avoid**Do not mix with other chemicals. Do not mix with chlorinated products.

Incompatible materials Oxidizers. Acids.

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

#### 11. Toxicological Information

Component analysis - LC50	
Ingredient(s)	LC50
2-Propanol, 1-butoxy-	Not available
Alcohols, C7-21, ethoxylated	Not available
Alcohols, C9-11, ethoxylated	5 mg/l/4h rat
Dipropylene glycol methyl ether	Not available
Sodium carbonate	400 mg/m3 guinea pig
Sodium lauriminodipropionate	Not available
Component analysis - Oral LD50	
Ingredient(s)	LD50
2-Propanol, 1-butoxy-	3300 mg/kg rat
Alcohols, C7-21, ethoxylated	1410 mg/kg rat
Alcohols, C9-11, ethoxylated	1200 mg/kg rat
Dipropylene glycol methyl ether	5400 mg/kg rat
Sodium carbonate	4090 mg/kg rat
Sodium lauriminodipropionate	31300 mg/kg rat

Effects of acute exposure

EyeCauses irritation.SkinCauses irritation.

ACGIH - Threshold Limit Values - Skin Notations

Dipropylene glycol methyl ether 34590-94-8 Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations

Dipropylene glycol methyl ether 34590-94-8 Potential for dermal absorption

Inhalation May cause respiratory tract irritation.

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

SensitizationNon-hazardous by WHMIS/OSHA criteria.Chronic effectsNon-hazardous by WHMIS/OSHA criteria.CarcinogenicityNon-hazardous by WHMIS/OSHA criteria.MutagenicityNon-hazardous by WHMIS/OSHA criteria.Reproductive effectsNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

**Products** 

#### 12. Ecological Information

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

concerns.

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data** 

Sodium carbonate 497-19-8 120 Hr EC50 Nitzschia: 242 mg/L

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data** 

Dipropylene glycol methyl ether 34590-94-8 96 Hr LC50 Pimephales promelas: >10000 mg/L [static]

Sodium carbonate 497-19-8 96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 96 Hr LC50 Pimephales

promelas: 310 - 1220 mg/L [static]

**Ecotoxicity - Water Flea - Acute Toxicity Data** 

Dipropylene glycol methyl ether 34590-94-8 48 Hr LC50 Daphnia magna: 1919 mg/L Sodium carbonate 497-19-8 48 Hr EC50 Daphnia magna: 265 mg/L

Not available Persistence / degradability Not available Bioaccumulation / accumulation Not available Mobility in environmental media Not available **Environmental effects** Not available Aquatic toxicity Not available Partition coefficient Chemical fate information Not available Not available Other adverse effects

#### 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

#### **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

Dipropylene glycol methyl ether 34590-94-8 1 % Sodium carbonate 497-19-8 1 %

WHMIS status Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

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 (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

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

Dipropylene glycol methyl ether 34590-94-8 Present

U.S. - Massachusetts - Right To Know List

Dipropylene glycol methyl ether 34590-94-8 Present

U.S. - Minnesota - Hazardous Substance List

Dipropylene glycol methyl ether 34590-94-8 Present U.S. - New Jersey - Right to Know Hazardous Substance List
Dipropylene glycol methyl ether 34590-94-8 sn 0804

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

Dipropylene glycol methyl ether 34590-94-8 Present

U.S. - Rhode Island - Hazardous Substance List

Dipropylene glycol methyl ether 34590-94-8 Toxic

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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#18528 Page 6 of 6 Issue date 26-Jan-2012