

# SAFETY DATA SHEET

CHM00367

CHM00368

# 1. Product and Company Identification

SDS REC'D by Trane February 23

Green Clean (4186-01, 4186-08, 4186-24) **Product identifier** 

Other means of identification Recommended use

Not available Cleaner/Degreaser

**Recommended restrictions** 

None known.

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

Physical hazards Not classified.

Skin corrosion/irritation Health hazards

Category 2 Category 2

Serious eye damage/eye irritation

Not classified.

**OSHA** defined hazards Not classified.

Label elements

**Environmental hazards** 



Signal word Warning

**Hazard statement** Causes skin irritation.

Causes serious eye irritation.

**Precautionary statement** 

Prevention Wash thoroughly after handling.

Wear protective gloves. Wear eye/face protection.

Response If on skin: Wash with plenty of water.

> If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Specific treatment (see this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

68439-46-3

0.5-1.5

easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

**Mixture** 

None known.

Supplemental information None.

Alcohols, C9-11, ethoxylated

# 3. Composition/Information on Ingredients

#### **Chemical name** Common name and synonyms **CAS** number % (2-Methoxymethylethoxy) propanol 34590-94-8 1-5 2-Propanol, 1-butoxy-5131-66-8 1-5 Alcohols, C7-21, ethoxylated 68991-48-0 1-5 Sodium carbonate 497-19-8 1-5 Sodium lauriminodipropionate 14960-06-6 1-5

US GHS: The exact percentage (concentration) of composition has been withheld as a trade **Composition comments** secret in accordance with paragraph (i) of §1910.1200.

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#### 4. First Aid Measures

Inhalation
Skin contact

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

If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Specific treatment (see product label). If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

If swallowed: Rinse mouth. Do NOT induce vomiting. If symptoms develop, obtain medical

attention.

Most important

symptoms/effects, acute and

delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** 

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, skin and clothing. Keep out of reach of children.

# 5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

None known.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Use standard firefighting procedures and consider the hazards of other involved materials.

Fire-fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

No unusual fire or explosion hazards noted.

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, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Never return spills to original containers for re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters. Contact local authorities in case of spillage to drain/aquatic environment.

# 7. Handling and Storage

Precautions for safe handling

Wash thoroughly after handling. When using do not eat or drink. Use only with adequate ventilation. Avoid breathing vapors or mists of this product. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Do not empty into drains. Keep container tightly closed.

Conditions for safe storage, including any incompatibilities

Store in a closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

#### 8. Exposure Controls/Personal Protection

#### Occupational exposure limits

| Components   | Туре          | Value     |  |
|--|---------------|-----------|--|
| (2-Methoxymethylethoxy)<br>propanol (CAS 34590-94-8) | PEL           | 600 mg/m3 |  |
| ,  |               | 100 ppm   |  |
| US. ACGIH Threshold Limit Values                     | <b>S</b>      |           |  |
| Components   | Туре          | Value     |  |
| (2-Methoxymethylethoxy)<br>propanol (CAS 34590-94-8) | STEL          | 150 ppm   |  |
|  | TWA           | 100 ppm   |  |
| US. NIOSH: Pocket Guide to Chen                      | nical Hazards |           |  |
| Components   | Туре          | Value     |  |

(2-Methoxymethylethoxy) STEL 900 mg/m3 propanol (CAS 34590-94-8) 150 ppm TWA 600 mg/m3

100 ppm

**Biological limit values** 

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

No biological exposure limits noted for the ingredient(s).

Skin protection

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

Other As required by employer code.

Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA). Avoid breathing mists or

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

Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and Chemical Properties

Clear **Appearance** Physical state Liquid. **Form** Liquid. Green Color Lime. Odor **Odor threshold** Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

range

Not available.

Not available. Pour point Not available. Specific gravity Not available **Partition coefficient** 

(n-octanol/water)

Not available Flash point **Evaporation rate** Not available Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Not available Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Not available Vapor pressure Not available Vapor density Relative density Not available. Solubility(ies) Not available Not available **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Viscosity

Other information

**Bulk density** 8.63

10. Stability and Reactivity

This product may react with strong oxidizing agents. Reactivity

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

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

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard. Prolonged inhalation may be harmful. Inhalation

Skin contact Causes skin irritation.

**US ACGIH Threshold Limit Values: Skin designation** 

(2-Methoxymethylethoxy) propanol (CAS Can be absorbed through the skin.

34590-94-8)

**US. NIOSH: Pocket Guide to Chemical Hazards** 

(2-Methoxymethylethoxy) propanol (CAS Can be absorbed through the skin.

34590-94-8)

Causes serious eye irritation. Eye contact

Symptoms related to the

physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

Information on toxicological effects

**Acute toxicity** 

**Product Test Results Species** 

Green Clean (4186-01, 4186-08, 4186-24) (CAS Mixture)

Acute Inhalation

LC50 Rat 1818.2 mg/l, 1 hours, estimated

Components **Species Test Results** 

(2-Methoxymethylethoxy) propanol (CAS 34590-94-8)

Acute Dermal

LD50 Rabbit 10000 mg/kg

Inhalation

LC50 Not available

Oral LD50

Rat 5400 mg/kg

**Species Test Results** Components 2-Propanol, 1-butoxy- (CAS 5131-66-8) Acute Dermal 3100 mg/kg LD50 Rabbit Inhalation LC50 Not available Oral LD50 Rat 3300 mg/kg Alcohols, C7-21, ethoxylated (CAS 68991-48-0) Acute Dermal LD50 Rabbit > 2000 mg/kg Inhalation LC50 Not available Oral LD50 Rat 1410 mg/kg Alcohols, C9-11, ethoxylated (CAS 68439-46-3) Acute Dermal LD50 Rat > 5000 mg/kg Inhalation LC50 Rat > 20 mg/l, 1 hours Oral LD50 Rat 1200 mg/kg Sodium carbonate (CAS 497-19-8) Acute Dermal LD50 Rat > 2000 mg/kg Inhalation LC50 Guinea pig 400 mg/m3 0.8 mg/l, 2 Hours Mouse 1.2 mg/l, 2 Hours Rat 2.3 mg/l, 2 Hours Oral LD50 Rat 4090 mg/kg Sodium lauriminodipropionate (CAS 14960-06-6) Acute Dermal LD50 Rabbit 10200 mg/kg Inhalation LC50 Oral LD50 Rat 31300 mg/kg Skin corrosion/irritation Causes skin irritation. **Exposure minutes** Not available. Erythema value Not available. Not available. Oedema value Serious eye damage/eye Causes serious eye irritation. irritation

Iris lesion value Not available. Not available. Conjunctival reddening value

Not available.

Corneal opacity value

Not available. Conjunctival oedema value Not available. Recover days

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

**US ACGIH Threshold Limit Values: Skin designation** 

(2-Methoxymethylethoxy) propanol (CAS 34590-Can be absorbed through the skin.

94-8)

US. NIOSH: Pocket Guide to Chemical Hazards

(2-Methoxymethylethoxy) propanol (CAS 34590-Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

(2-Methoxymethylethoxy) propanol (CAS 34590-Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards** 

(2-Methoxymethylethoxy) propanol (CAS 34590-Can be absorbed through the skin.

94-8)

Germ cell mutagenicity Not classified. Not classified. Mutagenicity Carcinogenicity Not classified. Reproductive toxicity Not classified. **Teratogenicity** Not classified. Specific target organ toxicity -Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not available. **Aspiration hazard** 

**Chronic effects** Prolonged inhalation may be harmful.

**Further information** Name of Toxicologically **Synergistic Products** 

Not available. Not available.

## 12. Ecological Information

**Ecotoxicity** See below

**Test Results** Components **Species** 

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

Fish 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

Sodium carbonate (CAS 497-19-8)

Crustacea EC50 Daphnia 265 mg/L, 48 Hours

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 156.6 - 298.9 mg/l, 48 hours

LC50 Fish Bluegill (Lepomis macrochirus) 300 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available. Mobility in general Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal Considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

> and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 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

This product has been classified in accordance with the hazard criteria of the Controlled Products Canadian federal regulations

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

2-Propanol, 1-butoxy- (CAS 5131-66-8) 1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

(2-Methoxymethylethoxy) propanol (CAS 34590-94-8) 1 %

Sodium carbonate (CAS 497-19-8) 1 %

WHMIS status Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling



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.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes Hazard categories

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** hazardous substance Nο

SARA 311/312 Hazardous

Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth

defects or other reproductive harm.

#### US - California Hazardous Substances (Director's): Listed substance

(2-Methoxymethylethoxy) propanol (CAS

34590-94-8)

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

#### US - Minnesota Haz Subs: Listed substance

(2-Methoxymethylethoxy) propanol (CAS 34590-94- Listed.

#### US - New Jersey RTK - Substances: Listed substance

(2-Methoxymethylethoxy) propanol (CAS 34590-94-Listed.

## US - Texas Effects Screening Levels: Listed substance

(2-Methoxymethylethoxy) propanol (CAS Listed.

34590-94-8)

2-Propanol, 1-butoxy- (CAS 5131-66-8) Listed. Alcohols, C9-11, ethoxylated (CAS 68439-46-3) Listed. Sodium carbonate (CAS 497-19-8) Listed.

## US. Massachusetts RTK - Substance List

(2-Methoxymethylethoxy) propanol (CAS Listed.

34590-94-8)

#### US. Pennsylvania RTK - Hazardous Substances

(2-Methoxymethylethoxy) propanol (CAS Listed. 34590-94-8)

#### US. Rhode Island RTK

Not regulated.

## Inventory status

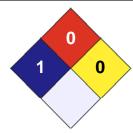
| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)           | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

<sup>\*</sup>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.

20-April-2015 Issue date Effective date 20-April-2015 **Expiry date** 20-April-2018

**Further information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000 Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.