

# SAFETY DATA SHEET

## 1. Product and Company Identification

|                                      |   |
|--------------------------------------|---|
| <b>Product identifier</b>            | <b>Aerosol Nu-Brite (4291-18)</b>   |
| <b>Other means of identification</b> | Not available   |
| <b>Recommended use</b>               | Cleaner/Degreaser   |
| <b>Recommended restrictions</b>      | None known.   |
| <b>Manufacturer</b>                  | Nu-Calgon<br>2008 Altom Court<br>St. Louis, MO 63146 US<br>Phone: 314-469-7000 / 800-554-5499<br>Emergency Phone: 1-800-424-9300 (CHEMTREC) |

## 2. Hazards Identification

|                              |                                   |               |
|------------------------------|-----------------------------------|---------------|
| <b>Physical hazards</b>      | Flammable aerosols                | Category 2    |
|                              | Gases under pressure              | Liquefied gas |
|                              | Corrosive to metals               | Category 1    |
| <b>Health hazards</b>        | Skin corrosion/irritation         | Category 1A   |
|                              | Serious eye damage/eye irritation | Category 1    |
| <b>Environmental hazards</b> | Not classified.                   |               |
| <b>OSHA defined hazards</b>  | Not classified.                   |               |
| <b>Label elements</b>        |                                   |               |



|                         |  |
|-------------------------|--|
| <b>Signal word</b>      | Danger   |
| <b>Hazard statement</b> | Flammable aerosol.<br>Contains gas under pressure; may explode if heated.<br>May be corrosive to metals.<br>Causes severe skin burns and eye damage. |

**Precautionary statement**

|                   |   |
|-------------------|---|
| <b>Prevention</b> | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Keep only in original container. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.  |
| <b>Response</b>   | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.<br>If swallowed: Rinse mouth. Do NOT induce vomiting.<br>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.<br>If inhaled: Remove person to fresh air and keep comfortable for breathing. Specific treatment (see this label).<br>Absorb spillage to prevent material damage. |
| <b>Storage</b>    | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.<br>Store locked up.<br>Store in corrosive resistant container with a resistant inner liner.  |
| <b>Disposal</b>   | Dispose of contents/container in accordance with local/regional/national/international regulations.   |

|  |                 |
|--|-----------------|
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.     |
| <b>Supplemental information</b>                  | Not applicable. |

## 3. Composition/Information on Ingredients

**Mixture**

| Chemical name    | Common name and synonyms | CAS number | %   |
|------------------|--------------------------|------------|-----|
| Sodium hydroxide |                          | 1310-73-2  | 9.5 |

| Chemical name    | Common name and synonyms | CAS number | %    |
|------------------|--------------------------|------------|------|
| Butane           |                          | 106-97-8   | 2.95 |
| Propane          |                          | 74-98-6    | 2.05 |
| Monoethanolamine |                          | 141-43-5   | 1.9  |

#### 4. First Aid Measures

|   |  |
|---|--|
| <b>Inhalation</b>   | If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor/.   |
| <b>Skin contact</b>   | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.   |
| <b>Eye contact</b>  | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.  |
| <b>Ingestion</b>  | If swallowed: Rinse mouth. Do NOT induce vomiting.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.   |

#### 5. Fire Fighting Measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Dry chemical. Carbon dioxide. Fog.  |
| <b>Unsuitable extinguishing media</b>                                | None known.   |
| <b>Specific hazards arising from the chemical</b>                    | Contents under pressure. Pressurized container may explode when exposed to heat or flame.   |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.  |
| <b>Fire-fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.                     |
| <b>General fire hazards</b>  | Flammable aerosol.  |
| <b>Hazardous combustion products</b>                                 | May include and are not limited to: Oxides of nitrogen. Oxides of carbon.   |
| <b>Explosion data</b>  |   |
| <b>Sensitivity to mechanical impact</b>                              | Not available.  |
| <b>Sensitivity to static discharge</b>                               | Not available.  |

#### 6. Accidental Release Measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.   |
| <b>Methods and materials for containment and cleaning up</b>               | Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Dike far ahead of spill for later disposal. Absorb spillage to prevent material damage. Scoop up used absorbent into drums or other appropriate container. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and Storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store locked up. Contents under pressure. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Keep away from heat, sparks and open flame. Avoid exposure to long periods of sunlight. Store in corrosive resistant container with a resistant inner liner. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.   |

## 8. Exposure Controls/Personal Protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                       | Type | Value                  |
|----------------------------------|------|------------------------|
| Monoethanolamine (CAS 141-43-5)  | PEL  | 6 mg/m <sup>3</sup>    |
|                                  |      | 3 ppm                  |
| Propane (CAS 74-98-6)            | PEL  | 1800 mg/m <sup>3</sup> |
|                                  |      | 1000 ppm               |
| Sodium hydroxide (CAS 1310-73-2) | PEL  | 2 mg/m <sup>3</sup>    |

#### US. ACGIH Threshold Limit Values

| Components                       | Type    | Value               |
|----------------------------------|---------|---------------------|
| Butane (CAS 106-97-8)            | STEL    | 1000 ppm            |
| Monoethanolamine (CAS 141-43-5)  | STEL    | 6 ppm               |
|                                  | TWA     | 3 ppm               |
| Sodium hydroxide (CAS 1310-73-2) | Ceiling | 2 mg/m <sup>3</sup> |

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

| Components                       | Type    | Value                  |
|----------------------------------|---------|------------------------|
| Butane (CAS 106-97-8)            | TWA     | 1900 mg/m <sup>3</sup> |
|                                  |         | 800 ppm                |
| Monoethanolamine (CAS 141-43-5)  | STEL    | 15 mg/m <sup>3</sup>   |
|                                  |         | 6 ppm                  |
|                                  | TWA     | 8 mg/m <sup>3</sup>    |
| Propane (CAS 74-98-6)            | TWA     | 3 ppm                  |
|                                  |         | 1800 mg/m <sup>3</sup> |
|                                  |         | 1000 ppm               |
| Sodium hydroxide (CAS 1310-73-2) | Ceiling | 2 mg/m <sup>3</sup>    |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**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** Chemical goggles are recommended.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA). In case of insufficient ventilation, wear suitable respiratory equipment.

|                                       |  |
|---------------------------------------|--|
| <b>Thermal hazards</b>                | Not applicable.  |
| <b>General hygiene considerations</b> | When using do not smoke. 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. |

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## 9. Physical and Chemical Properties

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|   |                           |
|---|---------------------------|
| <b>Appearance</b>                                   | Compressed liquefied gas. |
| <b>Physical state</b>                               | Gas.                      |
| <b>Form</b>   | Aerosol. Spray            |
| <b>Color</b>  | Clear Green               |
| <b>Odor</b>   | Caustic                   |
| <b>Odor threshold</b>                               | Not available.            |
| <b>pH</b>   | 13.0 ± 0.5                |
| <b>Melting point/freezing point</b>                 | Not available.            |
| <b>Initial boiling point and boiling range</b>      | Not available.            |
| <b>Pour point</b>                                   | Not available.            |
| <b>Specific gravity</b>                             | Not available             |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.            |
| <b>Flash point</b>                                  | Not available             |
| <b>Evaporation rate</b>                             | < 1 (Ether = 1)           |
| <b>Flammability (solid, gas)</b>                    | Not applicable.           |
| <b>Upper/lower flammability or explosive limits</b> |                           |
| <b>Flammability limit - lower (%)</b>               | Not available             |
| <b>Flammability limit - upper (%)</b>               | Not available             |
| <b>Explosive limit - lower (%)</b>                  | Not available.            |
| <b>Explosive limit - upper (%)</b>                  | Not available.            |
| <b>Vapor pressure</b>                               | 481 kPa                   |
| <b>Vapor density</b>                                | Not available.            |
| <b>Relative density</b>                             | Not available.            |
| <b>Solubility(ies)</b>                              | Not available.            |
| <b>Auto-ignition temperature</b>                    | Not available             |
| <b>Decomposition temperature</b>                    | Not available.            |
| <b>Viscosity</b>                                    | Not available.            |
| <b>Other information</b>                            |                           |
| <b>Heat of combustion</b>                           | 3.23 kJ/g                 |

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## 10. Stability and Reactivity

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|---|---|
| <b>Reactivity</b>                         | Strong acids.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.               |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                               |
| <b>Conditions to avoid</b>                | Do not mix with other chemicals.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Acids. Reducing agents. Soft metals.             |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. |

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## 11. Toxicological Information

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|---|---|
| <b>Routes of exposure</b>                       | Inhalation. Ingestion. Skin contact. Eye contact. |
| <b>Information on likely routes of exposure</b> |   |
| <b>Ingestion</b>                                | Causes digestive tract burns.                     |
| <b>Inhalation</b>                               | Prolonged inhalation may be harmful.              |
| <b>Skin contact</b>                             | Causes severe skin burns.                         |

**Eye contact**

Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics**

Burning pain and severe corrosive skin damage. Causes serious eye damage. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Information on toxicological effects****Acute toxicity**

| <b>Components</b>                        | <b>Species</b> | <b>Test Results</b>              |
|--|----------------|----------------------------------|
| Butane (CAS 106-97-8)                    |                |                                  |
| <b>Acute</b>                             |                |                                  |
| <i>Inhalation</i>                        |                |                                  |
| LC50                                     | Mouse          | 680 mg/L, 2 Hours                |
|  | Rat            | 276000 ppm, 4 Hours              |
|  |                | 658 mg/l/4h                      |
| <i>Oral</i>                              |                |                                  |
| LD50                                     | Not available  |                                  |
| Monoethanolamine (CAS 141-43-5)          |                |                                  |
| <b>Acute</b>                             |                |                                  |
| <i>Dermal</i>                            |                |                                  |
| LD50                                     | Rabbit         | 1018 mg/kg                       |
|  |                | 1000 mg/kg                       |
| <i>Inhalation</i>                        |                |                                  |
| LC50                                     | Mouse          | 1210 mg/m <sup>3</sup> , 4 Hours |
|  |                | 484 ppm, 4 Hours                 |
|  |                | 1.2 mg/L, 4 Hours                |
| <i>Oral</i>                              |                |                                  |
| LD50                                     | Guinea pig     | 620 mg/kg                        |
|  | Mouse          | 1475 mg/kg                       |
|  |                | 700 mg/kg                        |
|  | Rat            | 1970 mg/kg                       |
|  |                | 1720 mg/kg                       |
| Propane (CAS 74-98-6)                    |                |                                  |
| <b>Acute</b>                             |                |                                  |
| <i>Inhalation</i>                        |                |                                  |
| LC50                                     | Rat            | > 1442.8 mg/L, 15 Minutes        |
| <i>Oral</i>                              |                |                                  |
| LD50                                     | Not available  |                                  |
| Sodium hydroxide (CAS 1310-73-2)         |                |                                  |
| <b>Acute</b>                             |                |                                  |
| <i>Dermal</i>                            |                |                                  |
| LD50                                     | Rabbit         | 1350 mg/kg                       |
| <i>Inhalation</i>                        |                |                                  |
| LC50                                     | Not available  |                                  |
| <i>Oral</i>                              |                |                                  |
| LD50                                     | Not available  |                                  |
| <b>Skin corrosion/irritation</b>         |                |                                  |
| Causes severe skin burns and eye damage. |                |                                  |
| <b>Exposure minutes</b>                  | Not available. |                                  |
| <b>Erythema value</b>                    | Not available. |                                  |
| <b>Oedema value</b>                      | Not available. |                                  |
| <b>Serious eye damage/eye irritation</b> |                |                                  |
| Causes serious eye damage.               |                |                                  |
| <b>Corneal opacity value</b>             | Not available. |                                  |
| <b>Iris lesion value</b>                 | Not available. |                                  |
| <b>Conjunctival reddening value</b>      | Not available. |                                  |

|   |  |
|---|--|
| <b>Conjunctival oedema value</b>                          | Not available.   |
| <b>Recover days</b>                                       | Not available.   |
| <b>Respiratory or skin sensitization</b>                  |  |
| <b>Respiratory sensitization</b>                          | Not available.   |
| <b>Skin sensitization</b>                                 | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>                             | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Mutagenicity</b>                                       | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                                    | This product is not considered to be a carcinogen by IARC, NTP, or OSHA.   |
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects.                                     |
| <b>Teratogenicity</b>                                     | Not available.   |
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Aspiration hazard</b>                                  | Not likely, due to the form of the product.  |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful. May be harmful if absorbed through skin.                                    |
| <b>Further information</b>                                | Not available.   |
| <b>Name of Toxicologically Synergistic Products</b>       | Not available.   |

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## 12. Ecological Information

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|                                      |   |   |                              |
|--------------------------------------|---|---|------------------------------|
| <b>Ecotoxicity</b>                   | See below   |   |                              |
| <b>Components</b>                    |   | <b>Species</b>                                      | <b>Test Results</b>          |
| Monoethanolamine (CAS 141-43-5)      |   |   |                              |
| Algae                                | IC50  | Algae   | 15 mg/L, 72 Hours            |
| Crustacea                            | EC50  | Daphnia   | 65 mg/L, 48 Hours            |
| <b>Aquatic</b>                       |   |   |                              |
| Fish                                 | LC50  | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 114 - 196 mg/L, 96 hours     |
| Sodium hydroxide (CAS 1310-73-2)     |   |   |                              |
| <b>Aquatic</b>                       |   |   |                              |
| Crustacea                            | EC50  | Water flea (Ceriodaphnia dubia)                     | 34.59 - 47.13 mg/L, 48 hours |
| Fish                                 | LC50  | Western mosquitofish (Gambusia affinis)             | 125 mg/L, 96 hours           |
| <b>Persistence and degradability</b> | No data is available on the degradability of this product.  |   |                              |
| <b>Bioaccumulative potential</b>     | No data available.  |   |                              |
| <b>Mobility in soil</b>              | No data available.  |   |                              |
| <b>Mobility in general</b>           | Not available.  |   |                              |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |   |                              |

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## 13. Disposal Considerations

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|--|---|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. 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. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.  |
| <b>Hazardous waste code</b>                  | D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]<br>The waste code should be assigned in discussion between the user, the producer and the waste disposal company.  |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. 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).  |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.  |

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## 14. Transport Information

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### General

Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.

### U.S. Department of Transportation (DOT)

#### Basic shipping requirements:

**Proper shipping name** LTD QTY  
**Hazard class** Limited Quantity - US

### Transportation of Dangerous Goods (TDG - Canada)

#### Basic shipping requirements:

**UN number** UN1950  
**Proper shipping name** AEROSOLS, non-flammable, containing substances in Class 8, packing group II  
**Hazard class** Limited Quantity - Canada  
**Special provisions** 80

### IATA/ICAO (Air)

#### Basic shipping requirements:

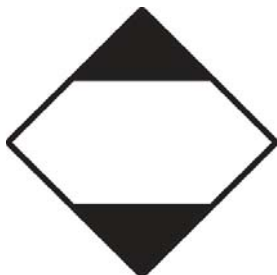
**UN number** UN1950  
**Proper shipping name** Aerosols, non-flammable, containing substances in Class 8, Packing Group II  
**Hazard class** 2.2  
**Subsidiary hazard class** 8  
**ERG code** 2C

### IMDG (Marine Transport)

#### Basic shipping requirements:

**UN number** UN1950  
**Proper shipping name** AEROSOLS  
**Hazard class** Limited Quantity - US

### DOT; IMDG; TDG



### IATA



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## 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 SDS contains all the information required by the Controlled Products Regulations.

#### Canada DSL Challenge Substances: Listed substance

Butane (CAS 106-97-8) Listed.

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

Butane (CAS 106-97-8) 1 TONNES  
Propane (CAS 74-98-6) 1 TONNES

#### Canada WHMIS Ingredient Disclosure: Threshold limits

Butane (CAS 106-97-8) 1 %  
Monoethanolamine (CAS 141-43-5) 1 %  
Sodium hydroxide (CAS 1310-73-2) 1 %

**WHMIS status** Controlled

**WHMIS classification**

Class A - Compressed Gas, Class B - Division 5 - Flammable Aerosol, Class E - Corrosive Material

**WHMIS labeling****US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

**US CWA Section 311 Hazardous Substances: Listed substance**

Sodium hydroxide (CAS 1310-73-2) Listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Butane (CAS 106-97-8) Listed.

Propane (CAS 74-98-6) Listed.

Sodium hydroxide (CAS 1310-73-2) Listed.

**US CAA Section 111 Volatile Organic Compounds: Listed substance**

Monoethanolamine (CAS 141-43-5) Listed.

**US CAA Section 112(r) Accidental Release Prevention - Regulated Flammable Substance: Listed substance**

Butane (CAS 106-97-8) Regulated flammable substance.

Propane (CAS 74-98-6) Regulated flammable substance.

**US CAA Section 112(r) Accidental Release Prevention: Threshold quantity**

Butane (CAS 106-97-8) 10000 LBS

Propane (CAS 74-98-6) 10000 LBS

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

Butane (CAS 106-97-8) Listed.

Propane (CAS 74-98-6) Listed.

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

Not regulated.

**US CAA Section 612 SNAP Program: Listed substance**

Butane (CAS 106-97-8) Listed.

Propane (CAS 74-98-6) Listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - Yes  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

No

**SARA 311/312 Hazardous chemical**

No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)**

Hazardous substance

**Safe Drinking Water Act (SDWA)**

Not regulated.

**Food and Drug Administration (FDA)**

Not regulated.

**US state regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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

Butane (CAS 106-97-8) Listed.

Monoethanolamine (CAS 141-43-5) Listed.

Sodium hydroxide (CAS 1310-73-2) Listed.

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

Not listed.

**US - Illinois Chemical Safety Act: Listed substance**

Butane (CAS 106-97-8) Listed.



|  |         |
|--|---------|
| Propane (CAS 74-98-6)  | Listed. |
| Sodium hydroxide (CAS 1310-73-2)   | Listed. |
| <b>US - Louisiana Spill Reporting: Listed substance</b>                        |         |
| Butane (CAS 106-97-8)  | Listed. |
| Propane (CAS 74-98-6)  | Listed. |
| Sodium hydroxide (CAS 1310-73-2)   | Listed. |
| <b>US - Minnesota Haz Subs: Listed substance</b>                               |         |
| Butane (CAS 106-97-8)  | Listed. |
| Monoethanolamine (CAS 141-43-5)  | Listed. |
| Propane (CAS 74-98-6)  | Listed. |
| Sodium hydroxide (CAS 1310-73-2)   | Listed. |
| <b>US - New Jersey RTK - Substances: Listed substance</b>                      |         |
| Butane (CAS 106-97-8)  | Listed. |
| Monoethanolamine (CAS 141-43-5)  | Listed. |
| Propane (CAS 74-98-6)  | Listed. |
| Sodium hydroxide (CAS 1310-73-2)   | Listed. |
| <b>US - New York Release Reporting: Hazardous Substances: Listed substance</b> |         |
| Sodium hydroxide (CAS 1310-73-2)   | Listed. |
| <b>US - Texas Effects Screening Levels: Listed substance</b>                   |         |
| Butane (CAS 106-97-8)  | Listed. |
| Monoethanolamine (CAS 141-43-5)  | Listed. |
| Propane (CAS 74-98-6)  | Listed. |
| Sodium hydroxide (CAS 1310-73-2)   | Listed. |
| <b>US. Massachusetts RTK - Substance List</b>                                  |         |
| Butane (CAS 106-97-8)  | Listed. |
| Monoethanolamine (CAS 141-43-5)  | Listed. |
| Propane (CAS 74-98-6)  | Listed. |
| Sodium hydroxide (CAS 1310-73-2)   | Listed. |
| <b>US. Pennsylvania RTK - Hazardous Substances</b>                             |         |
| Butane (CAS 106-97-8)  | Listed. |
| Monoethanolamine (CAS 141-43-5)  | Listed. |
| Propane (CAS 74-98-6)  | Listed. |
| Sodium hydroxide (CAS 1310-73-2)   | Listed. |
| <b>US. Rhode Island RTK</b>  |         |
| Butane (CAS 106-97-8)  | Listed. |
| Propane (CAS 74-98-6)  | Listed. |
| Sodium hydroxide (CAS 1310-73-2)   | Listed. |

**Inventory status**

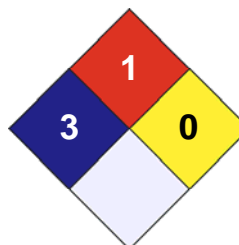
| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| Canada                     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

\*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              | / 3 |
| FLAMMABILITY        | 1   |
| PHYSICAL HAZARD     | 0   |
| PERSONAL PROTECTION | X   |



**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. 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.

|                       |                   |
|-----------------------|-------------------|
| <b>Issue date</b>     | 18-September-2015 |
| <b>Effective date</b> | 18-September-2015 |
| <b>Expiry date</b>    | 18-September-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).

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