

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Cal-Blue Gas Leak Detector (4181)

CAS # Mixture

Product use Gas Leak Detector

Manufacturer Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

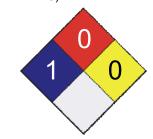
Phone: 314-469-7000 / 800-554-5499

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 Skin. Eyes.

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
Lauryldimethylamine oxide	1643-20-5 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.

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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. Foam. 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.

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 in original containers for re-use.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material.

Storage

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

materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)

Exposure Limits

Lauryldimethylamine oxide

ACGIH-TI V 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. Wash hands before breaks and immediately after handling the product.

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9. Physical & Chemical Properties

AppearanceClear.ColorBlueFormLiquid

Odor Characteristic
Odor threshold Not avai lable

Physical state Liquid

pH 8.3 - 8.9 (Concentrate)

Melting pointNot availableFreezing point0 °C (32.00 °F)Boiling point100 °C (212.00 °F)

Flash point None

Evaporation rate Not available **Flammability limits in air, lower,** % Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure Not avai lable Vapor density Not avai lable

Specific gravity 1

Octanol/water coefficient

Solubility (H2O)

Auto-ignition temperature

VOC (Weight %)

Viscosity

Not available

Not available

Not available

Not available

98

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Oxidizers. Acids.

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

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Lauryldimethylamine oxide Not available

Component analysis - Oral LD50

Ingredient(s) LD50

Lauryldimethylamine oxide 2700 mg/kg mouse

Effects of acute exposure

EyeMay cause irritation.SkinMay cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization
Non-hazardous by W HMIS/OSHA criteria.
Chronic effects
Non-hazardous by W HMIS/OSHA criteria.
Carcinogenicity
Non-hazardous by W HMIS/OSHA criteria.
Mutagenicity
Non-hazardous by W HMIS/OSHA criteria.
Reproductive effects
Non-hazardous by W HMIS/OSHA criteria.

12. Ecological Information

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

13. Disposal Considerations

Not available Waste codes

Disposal instructions Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Not available Contaminated packaging

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 Canadian federal regulations

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Lauryldimethylamine oxide 1643-20-5

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

Communication Standard, 29 CFR 1910.1200.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

Nο

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

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not avai lable Clean Water Act (CWA) Not avai lable Safe Drinking Water Act (SDWA) Not avai lable Not available Drug Enforcement Agency (DEA) Food and Drug Administration Not available

(FDA)

Controlled WHMIS status



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 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

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

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Yes