

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name Nu-Calgon Wholesaler, Inc.	Phone Number (314) 469-7000 / (800)	554-5499	CHEMTREC (800) 424-9300	
Street Address 2008 Altom Court	City St. Louis	State MO	Postal Code 63146-4151	<u>Last Update</u> 1/17/13
Product Name Gas Leak Detector	Product Number 4180	Product Use Chemical gas leak	detector	EPA Registration # N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>% By Wt.</u>	CAS Number	TLV	<u>PEL</u>
Isopropanol	5	67-63-0	400ppm	400ppm

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: No Data.

Potential Health Effects

Eyes: May cause irritation to both eyes and skin.

Skin: May cause irritation to both eyes and skin.

Ingestion: Large quantities may cause upset to stomach.

Inhalation: No Data.

Chronic Exposure: No available information was found.

Carcinogenicity: No Data.

Medical Conditions Aggravated be Exposure: No Data.

SECTION 4 – FIRST AID MEASURES

Eves: In case of contact, flush with plenty of water for at least 15 minutes. Call a physician.

Skin: In case of contact, flush with plenty of water for at least 15 minutes. If irritation develops, contact a physician.

<u>Ingestion</u>: If swallowed, call a physician immediately.

Inhalation: N/A

SECTION 5 – FIREFIGHTING MEASURES

Flash Point: 39°C/102°F

Autoignition Temp: No Data.°C/No Data.°F

Hazardous Products of Combustion: No Data.

Flammable Limits in Air: None known.

Extinguishing Media: In case of fire use CO2 foam or dry chemical.

Fire and Explosion Hazards: None known.

Special Firefighting Procedures: Exercise caution when fighting any chemical fire. Respiratory protection is essential.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: Flush spill with water or wipe up and incinerate.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment: Avoid contact with eyes, skin and clothing. Keep away from heat and open flame. Wash thoroughly after handling. Read and observe all labeled precautions.

Storage Requirements: Avoid contact with eyes, skin and clothing. Keep away from heat and open flame. Wash thoroughly after handling. Read and observe all labeled precautions.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Eye Protection: Avoid eye contact

Protective Clothing: None required.

Exposure Guidelines: No Data.

Specific Engineering Controls (such as ventilation, enclosed process): Normal room ventilation.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid	Freezing Point: N/A°C/N/A°F	% Volatile by Weight: N/A%
Color: Clear	<u>Vapor Density [air =1]</u> : Unknown	Evaporation Rate: Unknown
Odor: Isopropanol odor	Vapor Pressure: Unknown	Specific Gravity: 1.10 - 1.15
Boiling Point: Unknown°C/Unknown°F	Solubility in Water: Complete	pH (concentrate): N/A

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: None known.

Incompatibilities: Can react violently with strong oxidizers.

Reactive Conditions to avoid: Heat and open flame.

Decomposition Products: Unknown.

SECTION 11 - TOXICOLOGICAL INFORMATION

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<u>Hazardous Ingredients</u>	CAS#	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
Isopropanol	67-63-0		ORAL LD50 5840mg/kg Rat	

SECTION 12 – ECOLOGICAL INFORMATION

<u>Hazardous Ingredients</u>	Aquatic Toxicity Data
No Data.	

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Flush product waste down drain with plenty of water, rinse container and discard.

SECTION 14 – TRANSPORTATION INFORMATION

Special Shipping Information: Not regulated.					
Special Shipping Motination 1 for regulated.					
Purview	Proper Shipping Name	<u>UN Number</u>	Packing Group	Hazard Class	
DOT (Land)	Not Regulated.				
IMO (Water)	No Data.				
ICAO (Air)	No Data.				

SECTION 15 – REGULATORY INFORMATION

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WHMIS Classification: (Workplace Hazardous Material Information System)	B3
SARA Title III: (Superfund Amendments & Reauthorization Act)	No Data.
OSHA: (Occupational Safety & Health Administration)	No Data.
TSCA: (Toxic Substance Control Act)	All ingredients are TSCA listed.
VOC: (volatile Organic Compounds)	No Data.
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
EINECS: (European Inventory of Existing Commercial Chemical Substances)	No Data.
DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List)	No Data.
CERCLA: (Comprehensive Response Compensation & Liability Act)	No Data.
IDL: (Canadian Ingredient Disclosure List)	No Data.
NFPA (HMIS) Rating: (Hazardous Materials Identification System)	Health Hazard: 0 Fire Hazard: 2 Reactivity: 0 Specific Hazard:X

SECTION 16 – OTHER INFORMATION

No Data.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herin.



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name Fluorescent Gas Leak Detector (4184)

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)

2. Hazards Identification

Emergency overview DANGER

Toxic.

Contains a potential teratogen.

CAUSES EYE AND SKIN IRRITATION.

Potential short term health effects

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

Eyes Causes irritation.

Skin Causes irritation. May be absorbed through the skin.

Inhalation May cause respiratory irritation.

Ingestion This product may be harmful or fatal if swallowed.

May cause stomach distress, nausea or vomiting.

Aspiration of material into lungs can cause chemical pneumonitis.

Target organs Eyes. Respiratory system. Skin. Kidney. Liver.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis. Prolonged or repeated

overexposure can cause liver and kidney damage.

Signs and symptoms Although animal toxicity values do not meet criteria, ethylene glycol is toxic to humans. There are

numerous human case reports of toxicity and death published in the literature.

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
Ethylene glycol	107-21-1	15 - 40
Lauryldimethylamine oxide	1643-20-5	1 - 5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for

15 minutes. Obtain medical attention immediately.

Skin contact Immediately flush with 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. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

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 I	/leasures		
Flammable properties	Not flammable by WHMIS criteria.			
Extinguishing media				
Suitable extinguishing media	Carbon dioxide. Dry chemical powder. Foam. Water spray.			
Unsuitable extinguishing media	Not available			
Protection of firefighters				
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.			
Protective equipment for firefighters	Firefighters should wear full protecti	Firefighters should wear full protective clothing including self contained breathing apparatus.		
Hazardous combustion products	May include and are not limited to: 0	oxides of carbon.		
Explosion data				
Sensitivity to mechanical impact	Not available.			
Sensitivity to static discharge	Not available.			
	6. Accidental Relea	se Measures		
Personal precautions	Keep unnecessary personnel away. damaged containers or spilled mate people away from and upwind of spi	ial unless wearing appropriate p		
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 non-reactive absorbent and placed if from entering sewers or waterways. return spills to original containers for	n suitable, covered, labelled con Contact emergency services ar	tainers. Prevent large spills	
	7. Handling and	Storage		
Handling	Use good industrial hygiene practice When using do not eat or drink. Wash hands before breaks and imm	_	uct.	
Storage	Keep out of reach of children.			
	Store in a closed container away fro	m incompatible materials.		
	8. Exposure Controls/Pe	rsonal Protection		
Occupational exposure limits				
US. ACGIH Threshold Limit				
Components	Туре	Value	Form	
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol	
Exposure limits	Chemicals listed in section 3 that are ACGIH.	e not listed here do not have est	ablished limit values for	
Engineering controls	Use only under good ventilation con	ditions or with respiratory protec	tion.	
Personal protective equipment				
Eye/Face protection	Wear safety glasses with side shield	S.		
Hand protection	Rubber gloves. Confirm with a repu	table supplier first.		
Skin and body protection	As required by employer code.			
Respiratory protection	Where exposure guideline levels ma breathing mists or vapours.	y be exceeded, use an approve	d NIOSH respirator. Avoid	
General hygiene considerations	Handle in accordance with good ind drink. Wash hands before breaks ar			

9. Physical and Chemical Properties

Appearance Fluorescent

Colour Yellow

Form Liquid

Odour Odourless

Odour threshold Not available.

Physical state Liquid.

pH 8.1 - 8.5

Freezing point Not available.

Boiling point Not available

Pour point Not available.

Evaporation rate Not available.

Flash point > 104.4 °C (> 220.0 °F)

Auto-ignition temperature Flammability Limits in Air, Upper, % by Volume Not available
Not available

Flammability Limits in Air, Lower, % by Volume

Not available

Heat of combustion

Vapour pressure

Vapour density

Specific gravity

Partition coefficient

Not available

Not available

Not available

(n-octanol/water)

Solubility (Water)

Relative density

Viscosity

VOC

Not available.

Not available.

Not available.

Not available.

Not available.

10. Stability and Reactivity

Reactivity

This product may react with strong acids.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoidDo not mix with other chemicals.Incompatible materialsCaustics. Acids. Oxidizers.

Hazardous decomposition

products

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

11. Toxicological Information

Acute effects Although animal toxicity values do not meet criteria, ethylene glycol is toxic to humans. There are

numerous human case reports of toxicity and death published in the literature.

Toxicological data

Components Species Test results

Ethylene glycol (CAS 107-21-1)

Acute Dermal

LD50 Rabbit 9500 mg/kg

Oral

LD50 Cat 1650 mg/kg

Components **Species Test results** 5500 mg/kg Dog Guinea pig 6.6 g/kg Mouse 7500 mg/kg Rabbit 5 g/kg Rat 5.9 g/kg

Lauryldimethylamine oxide (CAS 1643-20-5)

Acute

Oral LD50

Mouse 2700 mg/kg

LC50

Not available.

Effects of acute exposure

Causes irritation. Eve contact

Skin contact Causes irritation. May be absorbed through the skin.

May cause respiratory irritation. Inhalation

This product may be harmful or fatal if swallowed. Ingestion

May cause stomach distress, nausea or vomiting.

Aspiration of material into lungs can cause chemical pneumonitis.

Sensitisation Non-hazardous by WHMIS criteria. Non-hazardous by WHMIS criteria. Chronic effects

See below. Carcinogenicity

ACGIH Carcinogens

Ethylene glycol (CAS 107-21-1) A4 Not classifiable as a human carcinogen.

Mutagenicity Non-hazardous by WHMIS criteria. Non-hazardous by WHMIS criteria. Reproductive effects

In rats and mice exposed to ethylene glycol, embryotoxic (late resorptions), fetotoxic (reduced fetal **Teratogenicity**

body weight) and teratogenic (external, soft tissue and skeletal defects) effects were observed at

relatively high oral doses that caused no or minimal maternal toxicity.

Name of Toxicologically **Synergistic Products**

Not available.

12. Ecological Information

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

Ecotoxicological data

Species Components **Test results**

Ethylene glycol (CAS 107-21-1)

Crustacea EC50 Daphnia 46300 mg/L, 48 Hours

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 8050 mg/l, 96 hours

Persistence and degradability Not available. Bioaccumulation/accumulation Not available. Mobility in environmental Not available.

media

Not available. **Environmental effects** Not available. **Aquatic toxicity**

Partition coefficient

-1.36 Ethylene glycol

Chemical fate information Not available.

13. Disposal Considerations

Disposal instructions

Review federal, provincial, and local government requirements prior to disposal.

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.

Canada Priority Substances List (Second List): Listed substance

Ethylene glycol (CAS 107-21-1) Listed.

Canada WHMIS Ingredient Disclosure: Threshold limits

Ethylene glycol (CAS 107-21-1) 1 % Lauryldimethylamine oxide (CAS 1643-20-5) 1 %

WHMIS status Controlled

WHMIS Classification Class D - Division 1B, 2A, 2B

WHMIS labeling



Inventory status

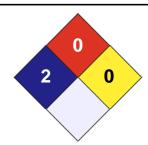
Country(s) or regionInventory NameOn Inventory (Yes/No)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

*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





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.

Issue date16-January-2014Effective date15-February-2014Expiry Date15-February-2017

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.

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