

# SHEET 0065401

[Print](#)[Go Back](#)[All SDS](#)

## SECTION 1: IDENTIFICATION

Date of Issue: 10-23-2014 | Revision Number: 03

### 1.1. Product Identifier

Product Form:

Product Name: 19 OZ CL INSTITUTIONAL GLSS CLNR LB 12PK

CAS No:

Synonyms:

### 1.2. Intended Use of the Product

Use of the substance/mixture: Cleaner

### 1.3. Name, Address, and Telephone of the Responsible Party Company

Claire Manufacturing Co.

1005 S. Westgate Drive

Addison, IL 60101 United States

Phone: General Assistance 1-630-543-7600

[Chat now](#)

## 1.4. Emergency Telephone Number

Emergency | 1-866-836-8855, 1-952-852-4646

number |

## SECTION 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Flammable | Category 1

aerosols |

|

|

## 2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) | Flame

Signal Word (GHS-US) | Danger

Hazard Statements (GHS-US) | Extremely flammable aerosol.

Precautionary Statements | Prevention

(GHS-US) | 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.

|Response

|Wash hands after handling.

|Storage

temperatures

|Protect from sunlight. Do not expose to

|exceeding 50°C/122°F.

|Disposal

|Dispose of waste and residues in accordance with

|local authority requirements.

2.3. Other Hazards

Other Hazards Not Contributing to the Classification: None known.

2.4. Unknown Acute Toxicity (GHS-US)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name	Product identifier	%	Classification
			(GHS-US)


Full text of H-phrases: See Section 16

### 3.2. Mixture

Name	Product identifier	%	Classification
			(GHS-US)
2-Butoxyethanol	111-76-2	2.5 - 10	
Isopropyl Alcohol	67-63-0	2.5 - 10	
Butane	106-97-8	1 - 2.5	
Propane	74-98-6	1 - 2.5	
Other components below reportable levels		90 - 100	

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

First-aid Measures General: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

First-aid Measures After Inhalation: Move to fresh air. Call a physician if

symptoms develop or persist.

First-aid Measures After Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

First-aid Measures After Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

First-aid Measures After Ingestion: Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed  
Symptoms/Injuries:

Symptoms/Injuries After Inhalation:

Symptoms/Injuries After Skin Contact:

Symptoms/Injuries After Eye Contact: Direct contact with eyes may cause temporary irritation.

Symptoms/Injuries After Ingestion:

Chronic Symptoms:

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Provide general supportive measures and treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. Extremely flammable aerosol.

Explosion Hazard:

Reactivity:

#### 5.3. Advice for Firefighters

Precautionary Measures Fire:

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so

without  
risk. In the event of fire and/or explosion do not breathe fumes.

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

Protection During Firefighting: Firefighters must use standard protective  
equipment including flame retardant coat, helmet with  
face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures  
General Measures: Keep unnecessary personnel away. Keep people away from and  
upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no  
smoking, flares, sparks, or flames in immediate area). 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.

#### 6.1.1. For Non-emergency Personnel

Protective Equipment:

Emergency Procedures:

#### 6.1.2. For Emergency Responders

Protective Equipment:

Emergency Procedures:

#### 6.2. Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

#### 6.3. Methods and Material for Containment and Cleaning Up

For Containment:

Methods for Cleaning Up: 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.

Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove

residual contamination. For waste disposal, see section 13 of the SDS.

#### 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: 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. All

equipment used when handling the product must be grounded. Use non-sparking tools

and explosion proof equipment. Do not re-use empty containers. Do not get in

eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapors/spray.

Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate

personal protective equipment. Observe good industrial hygiene practices.

Hygiene Measures: 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.

## 7.2. Conditions for Safe Storage, Including Any Incompatibilities

### Technical Measures:

Storage Conditions: Level 1 Aerosol. 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. This material can accumulate static charge which may cause  
spark and become an ignition source. Refrigeration recommended. Store away from  
incompatible materials (see Section 10 of the SDS). Level 1 Aerosol (NFPA 30B).

## 7.3. Specific End Use(s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

Occupational exposure limits

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

Components

Type

## Value

2-Butoxyethanol (CAS  
240  
mg/m3 50 ppm

PEL

111-76-2)

Isopropyl Alcohol (CAS

PEL

980 mg/m3 400 ppm

67-63-0)

Propane (CAS 74-98-6)

PEL

1800

mg/m3 1000 ppm

## US. ACGIH Threshold Limit Values

Components

Type

## Value

2-Butoxyethanol (CAS

TWA

20

ppm

111-76-2)

Butane (CAS 106-97-8)

STEL

1000

ppm

Isopropyl Alcohol (CAS

STEL

400

ppm

67-63-0)

US. NIOSH: Pocket Guide to Chemical Hazards

Components

Type

Value

2-Butoxyethanol (CAS

TWA

24

mg/m3

111-76-2)

Butane (CAS 106-97-8)

TWA

1900

mg/m3 800 ppm

Isopropyl Alcohol (CAS

STEL

1225

mg/m3

67-63-0)

Propane (CAS 74-98-6)

TWA

1800

mg/m3

1000 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components

Value

Determinant

Specimen

Sampling Time

2-Butoxyethanol (CAS 200 mg/g Butoxyacetic

Creatinine in urine \*

111-76-2)

acid (BAA),

with hydrolysis

Isopropyl Alcohol (CAS 40 mg/l Acetone

Urine \*

67-63-0)

\* - For sampling details, please see the source document.

#### Exposure guidelines

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can

be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2)

Skin

designation applies.

US - Tennessee OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can

be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can

be absorbed through the skin.

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

2-Butoxyethanol (CAS 111-76-2)

Can

be absorbed through the skin.

## 8.2. Exposure Controls

Appropriate Engineering

|Explosion-proof general and local exhaust

Controls

|ventilation. 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.

Personal Protective Equipment	
Materials for Protective	
Clothing	
Hand Protection	Wear appropriate chemical resistant gloves.
Eye Protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	
Respiratory Protection	If permissible levels are exceeded use NIOSH  mechanical filter / organic vapor cartridge or an  air-supplied respirator.
Thermal Hazard Protection	Wear appropriate thermal protective clothing, when  necessary.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	Gas.
Appearance	Not available.
Odor	Not available.
Odor Threshold	Not available.
pH	Not available.

Relative Evaporation Rate	Not available.
(butylacetate=1)	
Melting Point	Not available.
Freezing Point	Not available.
Boiling Point	212 °F (100 °C) estimated
Flash Point	-156.0 °F (-104.4 °C) propellant estimated
Auto-ignition Temperature	Not available.
Decomposition Temperature	Not available.
Flammability (solid, gas)	Not available.
Vapor Pressure	23.01 psig @70F estimated
Relative Vapor Density at 20 °C	Not available
Relative Density	Not available
Specific Gravity	0.977 estimated
Solubility	Not available
Partition coefficient:	Not available
n-octanol/water	
Viscosity	Not available
Lower Flammable Limit	Not available
Upper Flammable Limit	Not available

## 9.2. Other Information

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

#### 10.2 Chemical Stability

Material is stable under normal conditions.

#### 10.3 Possibility of Hazardous Reactions

No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

#### 10.4 Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Fire or intense heat may cause violent rupture of packages.

#### 10.5 Incompatible Materials

Strong oxidizing agents.

#### 10.6 Hazardous Decomposition Products

No hazardous decomposition products are known.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects

Acute Toxicity: Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Skin Corrosion/Irritation: Not applicable. Prolonged skin contact may cause temporary irritation.

Serious Eye Damage/Irritation: Direct contact with eyes may cause temporary irritation.

Respiratory or Skin Sensitization: Not a respiratory sensitizer.

This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH,

NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as  
to  
carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive Toxicity: This product is not expected to cause reproductive or  
developmental effects.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Aspiration Hazard: Not an aspiration hazard. Not likely, due to the form of the  
product.

Symptoms/Injuries After Inhalation: Expected to be a low ingestion hazard.

Symptoms/Injuries After Skin Contact: No adverse effects due to skin contact are  
expected.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is  
repeated and prolonged. These effects have not been observed in humans.

Symptoms/Injuries After Eye Contact: Direct contact with eyes may cause  
temporary

irritation.

Symptoms/Injuries After Ingestion: Prolonged inhalation may be harmful.

Chronic Symptoms: Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components

Species

Test Results

2-Butoxyethanol (CAS 111-76-2)

Aquatic

Fish

LC50

Inland silverside

(Menidia beryllina)

1250 mg/l, 96 hours

Isopropyl Alcohol (CAS 67-63-0)

Aquatic

Algae	IC50	Algae
-------	------	-------

1000.0001 mg/L, 72 Hours

Crustacea	EC50	Daphnia
-----------	------	---------

13299 mg/L, 48 Hours

Fish	LC50	Bluegill (Lepomis
------	------	-------------------

macrochirus) > 1400 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

#### 12.2. Persistence and Degradability

No data is available on the degradability of this product.

#### 12.3. Bioaccumulative Potential

No data available.

Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol	0.83
-----------------	------

Butane	2.89
--------	------

Isopropyl Alcohol	0.05
-------------------	------

Propane	2.36
---------	------

#### 12.4. Mobility in Soil

No data available.

#### 12.5. Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Waste Disposal Recommendations: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Additional Information:

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products: 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).

Contaminated packaging 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.

#### SECTION 14: TRANSPORT INFORMATION

##### 14.1 In Accordance with DOT

Proper Shipping Name |Aerosols, flammable, (each not exceeding 1 L capacity)

Hazard Class |2.1 |<PICTOGRAM PHRASE>

| |[pic]

Identification Number|UN1950 |

Label Codes |2.1 |

ERG Number |

14.2 In Accordance with IMDG  
Proper Shipping Name |AEROSOLS

Hazard Class |2.1

Identification Number|UN1950

Label Codes |2.1 |<PICTOGRAM PHRASE>

ntification Of The | |[[pic]

Substance/m | |

EmS-No. (Fire) |F-D |

EmS-No. (Spillage) |S-U |

14.3 In Accordance with IATA  
Proper Shipping Name |Aerosols, flammable

Identification Number|2.1 |<PICTOGRAM PHRASE>

| |[[pic]

Hazard Class |UN1950 |

Label Codes |2.1 |

ntification Of The | |

Substance/m | |

ERG Code (IATA) |10L

## SECTION 15: REGULATORY INFORMATION

## 15.1 US Federal Regulations

&lt;COMPONENT&gt;

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 Hazardous Substance List (40 CFR 302.4):

Not listed.

SARA 304 Emergency release notification:

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Not listed.

SARA 302 Extremely hazardous substance:

Not listed.

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

Not regulated.

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

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA):

Not regulated.

SARA Section 311/312 Hazard Classes | Immediate Hazard - No

| Delayed Hazard - No

| Fire Hazard - Yes

| Pressure Hazard - No

| Reactivity Hazard - No

Toxic Substances Control Act (TSCA) | Not regulated.

## 15.2 US State Regulations

<COMPONENT>

US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8)

Isopropyl Alcohol (CAS 67-63-0)

Propane (CAS 74-98-6)

US. California Proposition 65: 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.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date |

Other | This document has been prepared in accordance with the SDS

Information | requirements of the OSHA Hazard Communication Standard 29 CFR

|1910.1200.

GHS Full Text Phrases:

---- | |

-- | |

---- | |

-- | |

---- | |

-- | |

---- | |

-- | |

---- | |

-- | |

Grainger disclaimer.

**The information contained in this was obtained from current and reliable sources, however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of Imperial Supplies LLC, Imperial will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this " shall be created or inferred by any statement in this ". Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this ". The user is responsible for full compliance.**

[Privacy Policy](#) | [Terms of Sale](#) | [Terms of Access](#) | [Help](#)