

# SAFETY DATA SHEET

CO00432 CITRASOLVE

Preparation Date: 04/Dec/2019 Version: 2

# 1. IDENTIFICATION

Product identifier

Product Name CITRASOLVE

Other means of identification

SDS Number CO00432

Synonyms None

Recommended use of the chemical and restrictions on use

**Recommended Use** Industrial degreaser.

Restricted Uses No information available

**Initial Supplier Identifier** 

Relay Distributing 6005 50th Avenue Lloydminister, Saskatchewan

S9V 2A4

Telephone: 1-306-825-4322

# Emergency telephone number

24 Hour Emergency Phone Number (CANUTEC): 1-888-226-8832 (1-888-CAN-UTEC)

# 2. HAZARD IDENTIFICATION

# Hazardous Classification of the substance or mixture

Flammable liquids	Category 3
Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

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Carcinogenicity Category 1B

#### Label elements

#### Hazard pictograms



### Signal Word: Danger

#### **Hazard statements**

Flammable liquid and vapor
Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause cancer

#### **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

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Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Ground and bond container and receiving equipment

Use non-sparking tools

Take action to prevent static discharges

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Use explosion-proof electrical/ ventilating / lighting/ equipment

#### Response

IF exposed or concerned: Get medical advice/attention

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

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#### Storage

Store locked up

Store in a well-ventilated place. Keep cool

#### Disposal

Dispose of contents/container to an approved waste disposal plant

Very toxic to aquatic life with long lasting effects

Unknown acute toxicity No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

Chemical Name	CAS No	Weight-% (W/W)	Synonyms
Ethylene Glycol Monobutyl Ether	111-76-2	40 - 50%	Ethylene Glycol Monobutyl Ether
D-limonene	5989-27-5	40 - 50%	D-limonene
Nonylphenol ethoxylate	9016-45-9	20 - 30%	Nonylphenol ethoxylate

# 4. FIRST AID MEASURES

### **Description of first aid measures**

#### General advice

IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

#### Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.

#### ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

#### Self-protection of the first aider

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

#### Most important symptoms and effects, both acute and delayed:

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May cause Central Nervous System effects. May be harmful if swallowed May cause moderate skin irritation. May cause severe eye irritation. May cause dizziness. Exposure to high vapor concentrations may cause headache and nausea.

# <u>Indication of any immediate medical attention and special treatment needed:</u>

#### Note to physicians

Treat symptomatically. Treatment based on sound judgment of physician and individual reactions of patient. No specific antidote.

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the substance or mixture

This product can produce flammable vapors which may travel to a source of ignition and flash back.

#### **Hazardous combustion products**

Carbon monoxide. Carbon dioxide.

# Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

### **Environmental precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

# Methods and materials for containment and cleaning up

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

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Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Use good personal hygiene. Do not ingest. Ensure proper electrical grounding procedures are in place. Use of non-sparking or explosion proof equipment may be necessary, depending upon the type of operation.

# Conditions for safe storage, including any incompatibilities

Store in accordance with good industrial practices. Keep containers tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

### **Exposure Limits**

Chemical Name	Alberta OEL	British Columbia OEL	Ontario	Quebec OEL	Exposure Limit - ACGIH	Immediately Dangerous to Life or Health - IDLH
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm TWA: 97 mg/m <sup>3</sup>	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm TWA: 97 mg/m <sup>3</sup>	20 ppm TLV-TWA	700 ppm
D-limonene 5989-27-5	Not available	Not available	Not available	Not available	Not available	Not available
Nonylphenol ethoxylate 9016-45-9	Not available	Not available	Not available	Not available	Not available	Not available

Consult local authorities for recommended exposure limits

### **Appropriate engineering controls**

# **Engineering controls**

Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

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

### Eye/face protection

Chemical goggles; also wear a face shield if splashing hazard exists.

### Hand protection

Rubber gloves.

### Skin and body protection

Apron, coveralls and/or other resistant protective clothing.

# Respiratory protection

If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. Mist protection.

### General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid Color Clear Yellow Odor Citrus

No information available Odor threshold

**PROPERTIES** Values Remarks • Method

No data available None known pН

-40 °C / -40 °F Melting point / freezing point

Initial boiling point/boiling range 165 °C / 329 °F None known

53 °C / 127 °F Flash point Pensky-Martens Closed Cup

**Evaporation rate** None known No data available Flammability (solid, gas) No data available None known

Flammability Limit in Air

**Upper flammability limit:** 6.5 Lower flammability limit: 0.7

Vapor pressure <1 mmHg @ 20°C Relative vapor density No data available

**Specific Gravity** 0.88 Water solubility Insoluble

Solubility in other solvents No data available Partition coefficient No data available 250 °C / 482 °F **Autoignition temperature** 

**Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known

No information available. **Explosive properties Oxidizing properties** No information available.

No information available Molecular weight **VOC Percentage Volatility** No information available **Liquid Density** No information available **Bulk density** No information available

# 10. STABILITY AND REACTIVITY

None known

#### Reactivity/Chemical Stability

Stable

#### Possibility of hazardous reactions

No additional remark.

### **Hazardous polymerization**

Will not occur.

#### Conditions to avoid

Avoid excessive heat, open flames and all ignition sources.

### Incompatible materials

Oxidizing agents.

#### Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

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# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### Inhalation

Exposure to high vapor concentrations may cause headache and nausea.

#### Eye contact

May cause severe eye irritation.

#### Skin contact

May cause moderate skin irritation.

#### Ingestion

May be harmful if swallowed. May cause Central Nervous System effects. May cause dizziness.

# Information on toxicological effects

#### **Symptoms**

Prolonged and repeated contact with the skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis. Excessive exposure to ethylene glycol monobutyl ether may cause hemolysis, thereby impairing the blood's ability to transport oxygen. Repeated inhalation or ingestion may cause central nervous system and gastrointestinal disturbances.

### Numerical measures of toxicity

### **Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

 ATEmix (oral)
 646.00 mg/kg

 ATEmix (dermal)
 1,798.00 mg/kg

 ATEmix
 1.50 mg/l

(inhalation-dust/mist)

Unknown acute toxicity No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol Monobutyl Ether	= 470 mg/kg (Rat)	= 99 mg/kg(Rabbit)	= 450 ppm (Rat) 4 h = 486 ppm (Rat) 4 h
111-76-2 D-limonene 5989-27-5	= 4400 mg/kg (Rat) = 5200 mg/kg (Rat) = 5300 mg/kg (Rat)	> 5 g/kg(Rabbit)	Not available
Nonylphenol ethoxylate 9016-45-9	= 1310 mg/kg (Rat) = 2590 mg/kg (Rat) = 1300 mg/kg (Rat) = 1410 μL/kg (Rat)	= 1780 μL/kg(Rabbit)= 2 mL/kg(Rabbit)= 1800 μL/kg (Rabbit)= 2830 μL/kg(Rabbit )	Not available

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Skin corrosion/irritation

May cause moderate skin irritation.

#### Serious eye damage/eye irritation

May cause severe eye irritation.

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# Respiratory or skin sensitization

May cause sensitization by skin contact.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

In long-term animal studies with ethylene glycol butyl ether, small but statistically significant increases in tumors were seen in mice but not rats. These effects are not believed to be relevant to humans, if the material is handled in accordance with proper industrial handling, exposures should not pose any carcinogenic risk to man.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

	caracter and	<u> </u>		
Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol	A3	Group 3	Not available	Not available
Monobutyl Ether				
111-76-2				
D-limonene	Not available	Group 3	Not available	X
5989-27-5				
Nonylphenol ethoxylate	Not available	Not available	Not available	Not available
9016-45-9				

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

#### Reproductive toxicity

In laboratory animal studies for Glycol Ether EB, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. Ethylene glycol monobutyl ether did not cause birth defects in animals; other effects were seen in the fetus only at doses that caused toxic effects to the mother.

#### Specific target organ systemic toxicity - single exposure

No information available.

# Specific target organ systemic toxicity - repeated exposure

No information available.

#### **Aspiration hazard**

No information available.

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

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Chemical Name	Ecotoxicity - Freshwater	Ecotoxicity - Fish Species	Toxicity to	Crustacea
	Algae Data	Data	microorganisms	
Ethylene Glycol	Not available	1490 mg/L LC50	Not available	EC50: 1698 - 1940mg/L
Monobutyl Ether		(Lepomis macrochirus)		(24h, Daphnia magna)
111-76-2		96 h static 2950 mg/L		EC50: >1000mg/L (48h,
		LC50 (Lepomis		Daphnia magna)
		macrochirus) 96 h		-
D-limonene	Not available	0.619 - 0.796 mg/L LC50	Not available	Not available
5989-27-5		(Pimephales promelas)		
		96 h flow-through 35		
		mg/L LC50		

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		(Oncorhynchus mykiss)		
		) 96 h		
Nonylphenol ethoxylate	Not available	Not available	Not available	Not available
9016-45-9				

Persistence and degradability No information available.

**Bioaccumulation** No information available.

**Component Information** 

Chemical Name	Partition coefficient
Ethylene Glycol Monobutyl Ether 111-76-2	0.81
D-limonene 5989-27-5	Not available
Nonylphenol ethoxylate 9016-45-9	Not available

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

### 14. TRANSPORT INFORMATION

TDG (Canada):

**UN Number** UN1993

Shipping name FLAMMABLE LIQUID N.O.S. (D'LIMONENE)

**Class Packing Group** Ш Marine pollutant Yes.

Not regulated under the Transportation of Dangerous Goods Act when transported **Note** 

by road or rail in packagings or containers of 450 L or less (waste excluded).

Marine Pollutant designation is applicable only if shipped over water.

DOT (U.S.)

**UN Number** UN1993

FLAMMABLE LIQUID N.O.S. (D'LIMONENE) Shipping name

Class 3 **Packing Group** Ш Marine pollutant Yes

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

**U.S. Regulatory Rules** 

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Chemical Name	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Ethylene Glycol Monobutyl	Not Listed	Not Listed	Listed
Ether - 111-76-2			
D-limonene - 5989-27-5	Not Listed	Not Listed	Not Listed
Nonylphenol ethoxylate - 9016-45-9	Not Listed	Not Listed	Listed

**International Inventories** 

TSCA All components of this product are either on the Toxic Substances Control Act

(TSCA) Inventory List or exempt.

**DSL/NDSL** All components of this product are either on the Domestic Substances List (DSL),

the Non-Domestic Substances List (NDSL) or exempt.

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### **16. OTHER INFORMATION**

NFPA: Health hazards 3 Flammability 2 Instability 0 Physical and

chemical properties -

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HMIS: Health hazards \*3 Flammability 2 Physical hazards 0 Personal protection

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Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

**Prepared By:**The Environment, Health and Safety Department of Relay Distributing.

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**End of Safety Data Sheet**