

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Identification

Product form : Mixture
Product name : CITRASOL

Product code : GT13001, 05, 32, 55

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Multi-purpose cleaner and degreaser

#### 1.3. Details of the supplier of the safety data sheet

Gliptone Manufacturing Inc. 1740 Julia Goldbach Avenue

Ronkonkoma, NY 11779 - United States of America

T 1-631-285-7250 - F 1-631-589-5487

www.gliptone.com

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300 International: 1-703-527-3887

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

### **Classification (GHS-US)**

Flam. Liq. 3 H226 - Flammable liquid and vapour

Skin Irrit. 2 H315 - Causes skin irritation

Skin Sens. 1 H317 - May cause an allergic skin reaction

Full text of H-phrases: see section 16

#### 2.2. Label elements

### **GHS-US** labeling

Hazard pictograms (GHS-US)





GHS02 GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H226 - Flammable liquid and vapor

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

Precautionary statements (GHS-US) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash ... thoroughly after handling

P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 - If on skin: Wash with plenty of water/...

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P321 - Specific treatment (see ... on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

P363 - Wash contaminated clothing before reuse P370+P378 - In case of fire: Use ... to extinguish P403+P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container to ...

#### 2.3. Other hazards

No additional information available

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#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
(+)-limonene	(CAS No) 5989-27-5	10 - 50	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
butyl glycolether	(CAS No) 111-76-2	5 - 20	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315

Full text of H-phrases: see section 16

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give

oxygen. If breathing stops, give artificial respiration. Obtain medical attention.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse immediately with plenty of water

(for at least 15 minutes). Obtain medical attention. Wash clothing before re-using.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth out with water. Drink two glasses of water. Obtain

medical attention. Never give anything by mouth to an unconscious person.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Irritation. May cause an allergic skin reaction.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide. Water fog.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor. Combustible liquid. Keep away from open flames, hot surfaces

and sources of ignition. Under fire conditions closed containers may rupture or explode. Vapors may travel long distances along ground before igniting/flashing back to vapor source. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back

to source of vapors. Form with air vapors (heavier than air) who stay on the floor.

Explosion hazard : Keep away from ignition sources (including static discharges).

Reactivity : Flammable liquid and vapor.

#### 5.3. Advice for firefighters

Other information

Firefighting instructions : Move containers away from the fire area if this can be done without risk. Cool down the

containers/equipment exposed to heat with a water spray. Ensure that there is no direct contact

between the water and the product.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Use chemically protective clothing.

: Combustion produces irritating gases. Carbon oxides (CO, CO2). Nitrogen oxides.

### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep public away.

## 6.1.1. For non-emergency personnel

Protective equipment : Use chemically protective clothing.

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**Emergency procedures** 

: Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection" ".

#### **Environmental precautions**

Avoid release to the environment. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

#### Methods and material for containment and cleaning up

Methods for cleaning up

: Notify authorities if product enters sewers or public waters. Take up liquid spill into absorbent

material, e.g.: sand, earth, vermiculite.

: Dispose of materials or solid residues at an authorized site. Notify environmental authorities. Other information

#### Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection"".

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Additional hazards when processed

: Combustible liquid. TOXIC LIQUID, ORGANIC, N.O.S.

Precautions for safe handling

Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Do not get in eyes, on skin, or on clothing. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use chemically protective clothing.

Safe use of the product

Hygiene measures

Keep away from (strong) bases. Keep container closed when not in use.

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands

> after handling the product. Avoid inhalation of vapors. Wash hands immediately after handling the product. Wash clothing before re-using.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment.

Storage conditions

Store in a well-ventilated place. Keep cool. Keep container tightly closed. No smoking. Inspect

frequently to identify any sing of warping or leak of the containers.

Special rules on packaging : Always keep in containers made of the same material as the supply container.

#### **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

butyl glycolether (111-76-2)		
ACGIH	ACGIH TWA (ppm)	20 ppm (2-Butoxyethanol (EGBE); USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value)

### **Exposure controls**

Appropriate engineering controls

: Ensure good ventilation of the work station.

Hand protection

: Impermeable protective gloves. Wear long sleeves. Use protective clothing.

Eye protection

Safety glasses.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls

Avoid release to the environment.

Other information

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

Physical state : Liquid

Colourless to light yellow Color Odor : Lemon Citrus odor

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Odor threshold : No data available

pH : 9.5

Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available

Flash point : 50.6 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Explosion limits : 0.7 - 6 vol % Explosive properties : No data available Oxidizing properties : No data available Vapor pressure : No data available

Relative density : 0.96
Relative vapor density at 20 °C : 4.7

Solubility : Soluble in water.

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

9.2. Other information

VOC content : < 15 %

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Flammable liquid and vapor.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

No additional information available

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Likely routes of exposure : Skin contact.; Eyes contact.; Inhalation; Ingestion.

Acute toxicity : Not classified

(+)-limonene (5989-27-5)		
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)	
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)	
ATE US (oral)	4400.000 mg/kg body weight	
butyl glycolether (111-76-2)		
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	
LD50 dermal rabbit	435 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity; 435 mg/kg bodyweight; Rabbit; Weight of evidence; Equivalent or similar to OECD 402)	

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butyl glycolether (111-76-2)		
LC50 inhalation rat (mg/l)	2.17 mg/l/4h (Rat; Experimental value; 2.35 mg/l/4h; Rat; Experimental value)	
LC50 inhalation rat (ppm)	450-486,Rat; Weight of evidence	
ATE US (oral)	500.000 mg/kg body weight	
ATE US (dermal)	435.000 mg/kg body weight	
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	2.170 mg/l/4h	
ATE US (dust, mist)	2.170 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation.

pH: 9.5

Serious eye damage/irritation : Not classified

pH: 9.5

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

(+)-limonene (5989-27-5)	
IARC group	3 - Not Classifiable
butyl glycolether (111-76-2)	
IARC group	3 - Not Classifiable

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after skin contact : Irritation. May cause an allergic skin reaction.

Other information : CNS depression.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Do not allow into drains or water courses or dispose of where

ground or surface waters may be affected.

(+)-limonene (5989-27-5)	
LC50 fish 1	720 µg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Read-across)

## 12.2. Persistence and degradability

(+)-limonene (5989-27-5)		
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.	
ThOD	3.29 g O₂/g substance	
butyl glycolether (111-76-2)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.	
Biochemical oxygen demand (BOD)	0.71 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	2.20 g O₂/g substance	
ThOD	2.305 g O₂/g substance	
BOD (% of ThOD)	0.31	

### 12.3. Bioaccumulative potential

(+)-limonene (5989-27-5)	
BCF fish 1	864.8 - 1022 (BCF; Pisces)

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(+)-limonene (5989-27-5)		
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).	
butyl glycolether (111-76-2)		
Log Pow	0.81 (Experimental value; BASF test; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

#### 12.4. Mobility in soil

(+)-limonene (5989-27-5)	
Log Koc Koc,SRC PCKOCWIN v2.0; 1120 - 6324; QSAR	
butyl glycolether (111-76-2)	
Surface tension	0.027 N/m (25 °C)

#### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Flammable vapors may accumulate in the container.

# **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN1993 Flammable liquids, n.o.s., 3, III

UN-No.(DOT) : UN1993

Proper Shipping Name (DOT) : Flammable liquids, n.o.s.

Hazard Classes (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Packaging Bulk (49 CFR 173.xxx) : 24
DOT Symbols : G

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102)

: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 - 2.65 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

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DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Other information : No supplementary information available.

#### **TDG**

No additional information available

#### Transport by sea

UN-No. (IMDG) : 1993

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

#### Air transport

No additional information available

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

#### **CANADA**

During the transition period (June 2015-June 2017), Canadian regulation requires that the supplier must provide a document that conforms to either *Controlled Products Regulations* (WHMIS 1988) or HPR (WHMIS 2015), and not a combination of both. This document conforms to the post June 2017 HPR (WHMIS 2015) for a specific controlled or hazardous product. The classification, label and (material) SDS fully complies with the specific regulation chosen by the supplier.

#### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### butyl glycolether (111-76-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

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#### Full text of H-phrases:

At 6111 pilladece.	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

NFPA health hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt

medical attention is given.

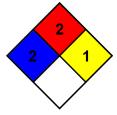
: 2 - Must be moderately heated or exposed to relatively high NFPA fire hazard

temperature before ignition can occur.

: 1 - Normally stable, but can become unstable at elevated NFPA reactivity

temperatures and pressures or may react with water with

some release of energy, but not violently.



**HMIS III Rating** 

Health : 2 Moderate Hazard - Temporary or minor injury may occur

: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient Flammability

temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F

but below 200 F. (Classes II & IIIA)

Physical 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high

temperatures and pressures. Materials may react non-violently with water or undergo

hazardous polymerization in the absence of inhibitors.

Legend: ACGIH: American Conference of Governmental Industrial Hygienists CFR: Code of Federal Regulations

NIOSH: National Institute of Occupational Safety and Health EPA: Environmental Protection Agency

CAS: Chemical Abstract Services N/Ap: not applicable

DOT: Department of Transportation NFPA: National Fire Protection Association

HMIS: Hazardous Materials Identification System PEL: Permissible Exposure Limit IARC: International Agency for Research on Cancer STEL: Short Term Exposure Limit

TSCA: Toxic Substance Control Act N/Av: not available OSHA: Occupational Safety and Health Administration TLV: Threshold Limit Values SARA: Superfund Amendments & Reauthorization Act

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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