



## Section 1: Identification

### Product identifier

- Product Name** ● Citrus "12" Degreaser  
**Product Code** ● 120

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

- Recommended use** ● Grease removal cleaner

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

- Manufacturer** ● Tate Soaps & Surfactants, Inc.  
1500 N. Webster St.  
Kokomo, IN 46901  
United States  
www.tatesoaps.com
- Telephone (General)** ● 765-868-4488

### Emergency telephone number

- Manufacturer** ● 800-424-9300 - CHEMTREC

## Section 2: Hazard Identification

### United States (US)

According to OSHA 29 CFR 1910.1200 HCS

### Classification of the substance or mixture

OSHA HCS 2012

Health	Environmental	Physical
Acute Toxicity - Category 4 (oral) Eye Effects - Category 2B Skin Corrosion/Irritation - Category 2	Aquatic Toxicity - Data unavailable	Flammable Liquid - Noncombustible

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## Label elements

OSHA HCS 2012

### Symbols:



### Hazard Statements:

#### Warning

Harmful if swallowed.  
Causes skin irritation and moderate eye irritation.

### Precautionary Statements:

#### Prevention

Keep away from open flame – No smoking  
Wash hands thoroughly after handling.  
Do not eat, drink, or smoke when using this product.  
Wear protective gloves and eye protection.

#### Response

If on skin: Take off immediately all contaminated clothing.  
Rinse skin with water.  
If skin irritation occurs: Get medical attention.  
If swallowed: Call a poison control center if you feel unwell.  
Rinse mouth.  
If in eyes: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center.

#### Storage

Store in a well-ventilated place. Keep cool.

#### Disposal

Dispose of contents in accordance with local regulations.

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## Other information – NFPA Rating



## Section 3: Composition/ Information on Ingredients

### Mixtures

Hazardous Components			
Chemical Name	CAS	%(weight)	LD50/LC50
Butoxy Ethanol	111-76-2	< 4%	Acute oral toxicity: Rat 470 mg/kg Acute dermal toxicity: Rabbit 220 mg/kg
Diethanolamine	111-42-2	< 0.2%	Acute oral toxicity: Rat 710 mg/kg Acute dermal toxicity: Rabbit 12200 mg/kg

## Section 4: First-Aid Measures

### Description of first aid measures

**Inhalation**

- N/A

**Skin**

- Wash with soap and water. Remove contaminated clothing. Wash before using.

**Eye**

- IF IN EYES: Wash with cool water for at least 15 minutes. Lift lids. Do not rub. Get medical attention immediately.

**Ingestion**

- Do NOT induce vomiting. Dilute by drinking milk or water. Get medical attention immediately.

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

- Refer to Section 11 - Toxicological Information.

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

**Notes to Physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5: Fire-Fighting Measures

### Extinguishing media

**Suitable Extinguishing Media** ● Dry Chemical, CO2, Foam, Sand/Earth.

**Unsuitable Extinguishing Media**

- Avoid the use of streaming water, as this may spread the fire.

### Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards**

- SCBA recommended; Smother to exclude air. DO not use water; handle as an oil Fire Class B Fire procedures. Combustible liquid keep away from heat, sparks, and open flame.

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**Hazardous Combustion Products**  
**Advice for firefighters**

- . NDA
- . Structural firefighters' protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. Use water spray to cool containers exposed to fire.

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**Section 6: Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**

- Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Emergency Procedures**

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

**Environmental precautions**

- . Avoid run off to waterways and sewers.

**Methods and material for containment and cleaning up**

**Containment/Clean-up Measures**

- . Small spills may be flushed with plenty of water down sewage drain. Large spills should be absorbed with absorbents (fuller earth type) and placed in containers for disposal.

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**Section 7: Handling and Storage**

**Precautions for safe handling**

**Handling**

- Avoid damage to container in handling.

**Conditions for safe storage, including any incompatibilities**

**Storage**

- Store at room temperature. Keep from freezing.

**Incompatible Materials or Ignition Sources**

- . Keep away from heat, ignition sources oxidizers and strong acids.

## Section 8: Exposure Controls/Personal Protection Control Parameters

Exposure Limits/Guidelines				
	Result	ACGIH	OSHA	NIOSH
Butoxy Ethanol (111-76-2)	TWAs	20 ppm	240 mg/m <sup>3</sup> 50 ppm	24 mg/m <sup>3</sup> 5 ppm
Diethanolamine (111-42-2)	TWAs	0.46 ppm 2 mg/m <sup>3</sup>	No data available	15 mg/m <sup>3</sup>

### Exposure controls

#### Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

#### Personal Protective Equipment

##### Pictograms

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##### Respiratory

- None under normal use
- Wear safety goggles or face shields

##### Eye/Face

##### Hands

- Wear protective gloves –neoprene or nitrile gloves.

##### Skin/Body

- None under normal use

#### General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

#### Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Avoid release to the environment.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

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## Section 9: Physical and Chemical Properties

### Information on Physical and Chemical Properties

<b>Appearance/Description</b>	Clear orange liquid with citrus scent		
<b>Odor</b>	Citrus scent	<b>Odor Threshold</b>	NDA
<b>Boiling Point</b>	212 °F	<b>Melting Point</b>	Not applicable
<b>pH</b>	NDA	<b>Specific Gravity/Relative @ 20°C</b>	0.994 Water = 1
<b>Density</b>	0.994 g/cc	<b>Solubility</b>	Slightly soluble in water
<b>Vapor Pressure @ 22°C</b>	13.13 mmHg	<b>Vapor Density@ 20°C</b>	< 1
<b>Evaporation Rate</b>	< 1 n-butyl = 1	<b>Flammability</b>	Not applicable
<b>Flash Point</b>	Not applicable	<b>Flammability Limits</b>	Not applicable
<b>Partition Coefficient</b>	NDA	<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	NDA	<b>Viscosity</b>	NDA

## Section 10: Stability and Reactivity

### Reactivity

- No dangerous reaction known under conditions of normal use.

### Chemical stability

- Stable under normal temperatures and pressures.

### Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### Conditions to avoid

- Keep from freezing

### Incompatible materials

- Strong acids, strong oxidizing agents

### Hazardous decomposition products

- Fumes, smoke, carbon monoxide, aldehydes in the case of incomplete combustion.

## Section 11: Toxicological Information

### Information on toxicological effects

Component Name	CAS	Data
Butoxy Ethanol	111-76-2	<b>Acute Toxicity:</b> Acute oral toxicity: Rat 470 mg/kg. Acute dermal toxicity: Rabbit 220 mg/kg <b>Irritation:</b> Eye irritation and skin irritation <b>Reproductive:</b> No data available
Diethanolamine	111-42-2	<b>Acute Toxicity:</b> Acute oral toxicity: Rat 710 mg/kg. Acute dermal toxicity: Rabbit 12200 mg/kg <b>Irritation:</b> Eye irritation and skin irritation <b>Reproductive:</b> No data available

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Category 4 (oral)
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Effects - Category 2B
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Corrosion/Irritation - Category 2
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met

**Target Organs** ● No data available

**Route(s) of entry/exposure** ● Inhalation, Skin, Eye, Ingestion

#### Potential Health Effects

##### Inhalation

**Acute (Immediate)** ● Not applicable.

**Chronic (Delayed)** ● Not applicable.

##### Skin

**Acute (Immediate)** ● Causes skin irritation.

**Chronic (Delayed)** ● May be harmful if absorbed through skin and can cause defatting of the skin.

##### Eye

**Acute (Immediate)** ● Causes eye irritation.

**Chronic (Delayed)** ● No data available.

##### Ingestion

**Acute (Immediate)** ● Harmful if swallowed. Will cause gastrointestinal problems if ingested.

**Chronic (Delayed)** ● No data available

## Section 12: Ecological Information

### Toxicity

- . NDA.

### Persistence and degradability

- . NDA.

### Bioaccumulative potential

- . NDA.

### Mobility in Soil

- . NDA.

### Other adverse effects

- . No studies have been found.

### Other Information

- . No data is available on the adverse effects of this material on the environment. Aquatic toxicity values are expected to be in the range of 1 - 10 mg/l based upon data from components and similar products.

## Section 13: Disposal Considerations

### Waste treatment methods

#### Product waste

- Waste of this product is NOT considered hazardous. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

#### Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14: Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NONE
TDG	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NONE
IMO/IMDG	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NONE
IATA/ICAO	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NONE

#### Special precautions for user

- None specified.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- . This product is provided only in non-bulk containers.



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## Section 15: Regulatory Information

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

**SARA Hazard Classifications** ● This product contains no chemicals which are listed or ranked by the Hazard Ranking System revised under SARA Title III

#### U.S. Federal Regulations

- TSCA (Toxic Substance Control Act):
  - All functional components of this product are listed on the TSCA Inventory.
- CERCLA (Comprehensive Response Compensation, and Liability Act):
  - This product contains no chemicals which are regulated under CERCLA.
- SARA TITLE III (Superfund Amendments and Reauthorization Act):
  - This product contains no chemicals which are listed or ranked by the Hazard Ranking System revised under SARA Title III
- 311/312 Hazard Categories:
  - This product is not reportable under sections 311 / 312
- 313 Reportable Ingredients:
  - This product contains no chemicals which are regulated under Section 313 or 304.

#### State Regulations

- California:
  - This product contains no chemicals which are regulated by the State of California Proposition 65.

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## Section 16: Other Information

- Last Revision Date** ● 05/11/2016
- Preparation Date** ● 06/01/2015
- Disclaimer/Statement of Liability** . The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance the need that information is current, applicable and suited to the circumstances of use. Korkay Cleaning Products assumes no responsibility for injury to vendee or third party person proximity caused by the material if reasonable safety procedures are no adhered to as stipulated in the data sheet. Furthermore, Korkay Cleaning Products assumes no responsibility for injury by abnormal use of this material even if reasonable safety procedures are followed.

**Key to abbreviations**

NDA = No data available.

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