SAFETY DATA SHEET

Product name: Citrex

Safet Data Sheet
May be used to comply with OSHA’s
Hazard Communication Standard, 29 CFR
1910.1200, standard must be consulted
for specific requirements.

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Citrex

Recommended use of the chemical: Industrial Detergent. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

Company Identification: Monaghan Corp.
2017 Dean Avenue
Des Moines, Iowa 50317
United States of America

Customer information number:
515-266-2120

Emergency phone number:
Chemtrec 800-424-9300 CC14908

SECTION II – HAZARDS IDENTIFICATION

GHS Classification
Eye irritation – Category 2
Skin irritation – Category 3

GHS label elements
hazard pictograms/symbols

Signal word: Warning

Hazard statement:
H315+H320: Causes skin and eye irritation.

Precautionary Statements:

Prevention: P262: Do not get in eyes, on skin, or on clothing.
P264: Wash all exposed external body areas thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing mist/vapours.

Response: P305+P351: IF IN EYES: Rinse cautiously with water for several minute.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352: IF ON SKIN: Wash with plenty of water and soap.
P314: Get medical advice/attention if you feel unwell.

Storage: P404: Store in a closed container.
P410+P403: Protect from sunlight. Store in a well-ventilated place.

Disposal: P501: Dispose of contents/container to be specified in accordance with regulation.
SECTION III – INFORMATION OF INGREDIENTS

IF PRESENT IARC, NTP AND OSHA CARCINOGENS AND CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly (oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy</td>
<td>9016-45-9</td>
</tr>
<tr>
<td>Ethylene glycol monobutyl ether</td>
<td>111-76-2</td>
</tr>
<tr>
<td>D-Limonene</td>
<td>5989-27-5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
</tr>
</tbody>
</table>

SECTION IV – FIRST AID AND MEASURES

Eyes:  
Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:  
Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:  
If patient is conscious and can swallow, give two glasses of water (16 oz.). Induce vomiting as directed by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

Inhalation:  
If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Other Instructions:  
None

SECTION V – FIRE FIGHTING MEASURES

Ignition Temperature - AIT (degrees C):  
Not applicable.

Recommended Fire Extinguishing Agents And Special Procedures:  
Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards:  
None

Special Protective Equipment for Firefighters:  
Wear full protective clothing and positive pressure breathing apparatus

SECTION VI – ACCIDENTAL RELEASE MEASURES

Procedures in Case of Accidental Release, Breakage or Leakage:  
Contain spill if possible, contain with absorbent materials such as clay or soil, and shovel up. Avoid skin and eye contact.

SECTION VII – HANDLING AND STORAGE

Precautions to be taken in  
Handling:  
Minimum feasible handling temperatures should be maintained.

Storage:  
Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

SECTION VIII – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Protective Equipment (Type)  
Eye/Face Protection:  
Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:  
Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

Respiratory Protection:  
Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after
determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

**Ventilation:**
Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

**Exposure limit for the Total Product:** None established for product.

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### SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Clear to yellow</td>
<td>Orange</td>
</tr>
<tr>
<td>Odor</td>
<td>Orange</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>6-8</td>
<td></td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N.D.</td>
<td></td>
</tr>
<tr>
<td>Melting/ Freezing Point</td>
<td>5°C (41°F)</td>
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</tr>
<tr>
<td>Specific gravity</td>
<td>1.06</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>110 cSt at 37.7°C (100°F).</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt;1 mmHg at 20°C (68°F)</td>
<td></td>
</tr>
</tbody>
</table>

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### SECTION X – STABILITY AND REACTIVITY

**Products Evolved When Subjected to Heat or Combustion:**
Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning. Heating in air may produce irritating aldehydes, acids, and ketones.

**Hazardous Polymerizations:**
DO NOT OCCUR

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### SECTION XI – TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)**

**Oral:**
LD50 3.31 g/kg (rat) slightly toxic

**Dermal:**
LD50 > 2.00 g/kg (rabbit) practically non-toxic

**Inhalation:**
Believed to be practically non-toxic

**IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)**

**Eyes:** (Draize) 14.40 /110 (rabbit) slightly irritating

**Skin:** (Draize) 1.04 /8.0 (rabbit) slightly irritating

**Sensitization:**
Not determined.

**Other:**
This product may contain residual (less than 100 ppm) concentrations of ethylene oxide. Ethylene oxide causes tumors in laboratory animals.

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### SECTION XII – ECOLOGICAL INFORMATION

**Aquatic toxic:**
LC50 -96hr Aquatic toxicity rating is believed to be >1.00-10.00 ppm (moderately toxic).

**Mobility:**
Not determined

**Persistence and bioaccumulate:**
Not determined

**Potential to bioaccumulate:**
Not determined

**Remarks:**
None

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### SECTION XIII – DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:**
This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous. This material should be disposed of in accordance with local, state and federal regulations.

**Remarks:**
None
SECTION XIV– TRANSPORT INFORMATION

DOT
Proper Shipping Name: Not regulated.
Hazard Class: Not regulated.
Identification Number: Not regulated.
Packing Group: Not regulated.
Label Required: Not regulated.

Depending on container size, spills of this product may require reporting under SARA 304 and/or CERCLA 102(A) regulations. Please refer to Sections 2 and 14 of MSDS for composition and component RQ information.

IMUG
Proper Shipping Name: Not regulated.

ICAO
Proper Shipping Name: Not regulated.

TOG
Proper Shipping Name: Not regulated.
Hazard Class: Not regulated.
Identification Number: Not regulated.
Label Required: Not regulated.

SECTION XV– REGULATORY INFORMATION

Not Regulated

SECTION XVI– OTHER INFORMATION

Hazard Rating System

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
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</table>

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