SAFETY DATA SHEET

1. Identification

Product identifier: Champion Heavy Duty Engine Degreaser - PT# 4123

Other means of identification
SDS number: RE1000039081

Recommended restrictions
Product use: Cleaner
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer
Company Name: CHAMPION BRANDS LLC
Address: 1001 GOLDEN DR.
CLINTON, MO 64735
Telephone: Fax:
Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards
Flammable aerosol Category 1

Health Hazards
Serious Eye Damage/Eye Irritation Category 2A
Skin sensitizer Category 1

Environmental Hazards
Acute hazards to the aquatic environment Category 2
Chronic hazards to the aquatic environment Category 2

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.
Causes serious eye irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.
Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Response: 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: Wash with plenty of water/… If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. Collect spillage.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-</td>
<td>5989-27-5</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>111-76-2</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)</td>
<td>64-02-8</td>
<td>1 - &lt;3%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1)</td>
<td>137-16-6</td>
<td>0.1 - &lt;1%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.
5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

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

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with eyes, skin, and clothing.
Conditions for safe storage, including any incompatibilities: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1

8. Exposure controls/personal protection

Control Parameters

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>REL</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2006)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2018)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>TWA</td>
<td>20 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>25 ppm 120 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>5 ppm 24 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2006)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>50 ppm 240 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Propane</td>
<td>REL</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>2 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Ammonium hydroxide ((NH₄)(OH))</td>
<td>STEL</td>
<td>35 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>25 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>35 ppm 27 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>35 ppm 27 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>25 ppm 18 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>50 ppm 35 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
</tbody>
</table>

**Biological Limit Values**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>200 mg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

**General information:**

Provide easy access to water supply and eye wash facilities. 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. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection
Hand Protection: No data available.

Other: Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

9. Physical and chemical properties

Appearance
- Physical state: liquid
- Form: Spray Aerosol
- Color: No data available.
- Odor: No data available.
- Odor threshold: No data available.
- pH: No data available.
- Melting point/freezing point: No data available.
- Initial boiling point and boiling range: No data available.
- Flash Point: -104.44 °C
- Evaporation rate: No data available.
- Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits
- Flammability limit - upper (%): No data available.
- Flammability limit - lower (%): No data available.
- Explosive limit - upper (%): No data available.
- Explosive limit - lower (%): No data available.

Vapor pressure: 2,757.9029 - 4,136.8543 hPa (20 °C)

Vapor density: No data available.
Density: No data available.
Relative density: No data available.
Solubility(ies)
- Solubility in water: No data available.
- Solubility (other): No data available.
- Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

10. Stability and reactivity

Reactivity: No data available.
Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition Products: No data available.

11. Toxicological information

Information on likely routes of exposure
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: ATEmix: 51,845.18 mg/kg

Dermal
Product: ATEmix: 35,105.26 mg/kg

Inhalation
Product:
ATEmix: 203.74 mg/l
ATEmix : 19.49 mg/l

Repeated dose toxicity
Product: No data available.
Specified substance(s):
Butane
NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study

Cyclohexene, 1-methyl-4-(1-methyleneyl)-, (4R)-
Ethanol, 2-butoxy-
NOAEL (Rat(Male), Oral, 13 Weeks): 600 mg/kg Oral Experimental result, Key study
NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal Experimental result, Key study
NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key study
NOAEL (Rat(Male), Inhalation, 2 yr): < 31 ppm(m) Inhalation Experimental result, Key study
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)

NOAEL (Rat(Female, Male), Oral, 103 Weeks): >= 500 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study

LOAEL (Rat(Male), Inhalation, 1 - 5 d): 30 mg/m3 Inhalation Read-across from supporting substance (structural analogue or surrogate), Key study

Propane

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1)

NOAEL (Rat(Female, Male), Oral, >= 91 d): 30 mg/kg Oral Experimental result, Key study

Skin Corrosion/Irritation

Product:

Specified substance(s):
Cyclohexene, 1-methyl-4-(1-methylethenyl)-(4R)-

Experimental result, Key study

in vivo (Rabbit): Not irritant

Ethanol, 2-butoxy-

Experimental result, Key study

in vivo (Rabbit): Irritating

Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)

Assessment

in vivo (Rabbit): Not irritant

Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1)

Skin sensitization:, in vivo (Guinea pig): Non sensitising

Serious Eye Damage/Eye Irritation

Product:

Specified substance(s):
Cyclohexene, 1-methyl-4-(1-methylethenyl)-(4R)-

Rabbit, 24 - 72 hrs: Not irritating

Ethanol, 2-butoxy-

Rabbit, 24 - 72 hrs: Irritating

Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1)

Rabbit, 24 - 72 hrs: Irritating

Respiratory or Skin Sensitization

Product:

Specified substance(s):
Ethanol, 2-butoxy-

Skin sensitization:, in vivo (Guinea pig): Non sensitising

Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)

Skin sensitization:, in vivo (Guinea pig): Non sensitising

Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1)

Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product:

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified
US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.
Specified substance(s):
Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Cyclohexene, 1-methyl-4-(1-methyleneyl) -, (4R)- EC 50 (Pimephales promelas, 96 h): 688 µg/l Experimental result, Key study
Ethanol, 2-butoxy- LC 50 (Onchorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key study
Glycine, N,N' -1,2-ethanediylbis(N- (carboxymethyl) -, sodium salt (1:4)
Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Aquatic Invertebrates
Product: No data available.
Specified substance(s):
Butane LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
Cyclohexene, 1-methyl-4-(1-methyleneyl) -, (4R)- EC 50 (Daphnia magna, 48 h): 0.36 mg/l Experimental result, Key study
NOAEL (Daphnia magna, 48 h): 0.074 mg/l Experimental result, Key study
Ethanol, 2-butoxy- EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)  
EC 50 (Daphnia magna, 24 h): 610 mg/l Experimental result, Key study  
Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1)  
NOAEL (Daphnia magna, 48 h): 5 mg/l Experimental result, Key study  
LC 50 (Daphnia magna, 48 h): 29.7 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish  
Product: NOEC : Estimated < 1 mg/l

Aquatic Invertebrates  
Product: No data available.

Specified substance(s):  
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-  
NOAEL (Freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex): 0.115 mg/l QSAR QSAR, Weight of Evidence study

Ethanol, 2-butoxy-  
EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study  
EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study

Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)  
NOAEL (Daphnia magna): 25 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Toxicity to Aquatic Plants  
Product: No data available.

Persistence and Degradability  
Biodegradation  
Product: No data available.

Specified substance(s):  
Butane  
100 % (385.5 h) Detected in water. Experimental result, Key study  
50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-  
80 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Key study

Ethanol, 2-butoxy-  
90.4 % Detected in water. Experimental result, Key study

Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)  
90 - 100 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study

Propane  
100 % (385.5 h) Detected in water. Experimental result, Key study  
50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1)  
82 % (28 d) Detected in water. Experimental result, Key study

BOD/COD Ratio  
Product: No data available.

Bioaccumulative potential  
Bioconcentration Factor (BCF)  
Product: No data available.
Specified substance(s):
- Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-
- Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)

Bioconcentration Factor (BCF): 864.8 Aquatic sediment QSAR, Key study
Lepomis macrochirus, Bioconcentration Factor (BCF): 1.8 Aquatic sediment Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)
Product:
Specified substance(s): No data available.
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-
Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1)

Log Kow: 4.34 - 4.46 25 °C No Experimental result, Supporting study
Log Kow: 0.37

Mobility in soil:
No data available.

Known or predicted distribution to environmental compartments
- Butane No data available.
- Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- No data available.
- Ethanol, 2-butoxy- No data available.
- Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4) No data available.
- Propane No data available.
- Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1) No data available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.

14. Transport information

DOT
- UN Number: UN 1950
- UN Proper Shipping Name: Aerosols, flammable
- Transport Hazard Class(es): 2.1
- Label(s): –
- Packing Group: II
- Marine Pollutant: No
- Environmental Hazards: No
- Marine Pollutant: No
- Special precautions for user: Not regulated.
15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>(Na(OH))</td>
<td></td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>((NH4)(OH))</td>
<td></td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Fire Hazard
- Immediate (Acute) Health Hazards
- Flammable aerosol
- Serious Eye Damage/Eye Irritation
- Skin sensitizer

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.
SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Ammonium hydroxide ((NH4)(OH))</td>
<td>lbs. 1000</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Chemicals

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Propane</td>
<td></td>
</tr>
<tr>
<td>Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt (1:1)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ammonium hydroxide ((NH4)(OH))</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reporting threshold for other users</th>
<th>Reporting threshold for manufacturing and processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>N230 lbs</td>
<td>N230 lbs</td>
</tr>
</tbody>
</table>

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
US State Regulations

US. California Proposition 65
No ingredient requiring a warning under CA Prop 65.

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

Chemical Identity
Butane
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-
Ethanol, 2-butoxy-
Propane

US. Massachusetts RTK - Substance List

Chemical Identity
Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Butane
Ethanol, 2-butoxy-
Propane

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.
International regulations

Montreal protocol
  Not applicable

Stockholm convention
  Not applicable

Rotterdam convention
  Not applicable

Kyoto protocol
  Not applicable

Inventory Status:
  Australia AICS: On or in compliance with the inventory
  Canada DSL Inventory List: On or in compliance with the inventory
  EINECS, ELINCS or NLP: Not in compliance with the inventory.
  Japan (ENCS) List: On or in compliance with the inventory
  China Inv. Existing Chemical Substances: Not in compliance with the inventory.
  Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.
  Canada NDSL Inventory: Not in compliance with the inventory.
  Philippines PICCS: Not in compliance with the inventory.
  US TSCA Inventory: On or in compliance with the inventory
  New Zealand Inventory of Chemicals: On or in compliance with the inventory
  Japan ISHL Listing: Not in compliance with the inventory.
  Japan Pharmacopoeia Listing: Not in compliance with the inventory.
  Mexico INSQ: Not in compliance with the inventory.
  Ontario Inventory: On or in compliance with the inventory
  Taiwan Chemical Substance Inventory: On or in compliance with the inventory

16. Other information, including date of preparation or last revision

Issue Date: 09/05/2019

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.