

1. IDENTIFICATION

Product Identifier

Product Name CITRIKLEEN
Chemical Name Alkali solvent emulsion degreaser

Recommended use of the chemical and restrictions on use

Recommended use Degreasing and cleaning applications
Restrictions on use For industrial use only

Supplier details

West Penetone Inc.
 11411-160 Street
 Edmonton, AB,
 T5M3T7
 Tel: 780-454-3919

Emergency Telephone Number

Main office – (780)-454-3919, 8:00 AM to 4:30 PM MST

2. HAZARDS IDENTIFICATION

Classification

| | |
|--|------------|
| Flammable liquids | Category 3 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitizer | Category 1 |
| Specific target organ toxicity – single exposure | Category 3 |
| Aspiration hazard | Category 1 |
| Hazardous to the aquatic environment, acute hazard | Category 2 |

Label Elements

DANGER

Hazard Statements

Flammable liquid and vapor
 Causes skin irritation
 Causes serious eye damage
 May cause an allergic skin reaction
 May cause respiratory irritation
 May be fatal if swallowed and enters airways
 Toxic to aquatic life



Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Keep container tightly closed.
 Avoid breathing dust/fumes/gas/mist/vapours/spray.
 Wash face, hands and any exposed skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing should not be allowed out of the workplace.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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 or doctor/physician.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight %* |
|---|------------|-----------|
| dipentene | 68956-56-9 | 10-30 |
| ethanolammonium dodecylbenzenesulfonate | 26836-07-7 | 5-10 |
| d-limonene | 5989-27-5 | 3-7 |
| alcohols, C9-C11, ethoxylated | 68439-46-3 | 1-5 |
| diethylene glycol monobutyl ether | 112-34-5 | 1-5 |
| 2-aminoethanol | 141-43-5 | 1-5 |
| tetrasodium ethylenediaminetetraacetate | 64-02-8 | 1-5 |

* The actual concentrations have been withheld as a trade secret

4. FIRST AID MEASURES

| | |
|---------------------|---|
| Ingestion | Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. |
| Skin contact | Wash with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash it before re-use. |
| Inhalation | If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician |

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause serious damage leading to irritation, discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva, blurred vision, and possible corneal injury. Contact with skin may cause irritation with local redness and aggravate previous medical skin conditions. Contact may also cause an allergic skin reaction with prolonged or repeated exposure. Inhalation of mist/vapors/spray may cause respiratory tract irritation leading to a temporary burning sensation of the nose and throat, coughing, and difficulty breathing. High concentrations may cause central nervous system depression leading to headaches, dizziness, and nausea. Ingestion may cause irritation or a burning sensation of the mouth and throat and abdominal pain. Ingestion may cause pneumonitis if aspirated into lungs.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed including oxides of carbon, nitrogen, and sulfur and other irritating gases.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water. For large spills, stop flow of material, dike, and pump off product where this is without risk and possible. Proceed as above.

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Handling Avoid contact and inhalation of mist/vapors/spray. Avoid contact with skin, eyes and clothing. Ensure thorough ventilation of work areas. Use recommended personal protective equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed away from direct sunlight in a dry, cool and well-ventilated place, away from incompatible materials.

Incompatible Materials Acids, strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|--|---------------------------|---------------|
| d-limonene 5989-27-5 | TWA: 30 ppm/165.5 mg/m ³ (AIHA) | Not available | Not available |
| diethylene glycol monobutyl ether 112-34-5 | TWA: 10 ppm | Not available | Not available |
| 2-aminoethanol 141-43-5 | TWA : 3 ppm/7.5 mg/m ³ STEL : 6 ppm/15 mg/m ³ | 3 ppm/6 mg/m ³ | Not listed |

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash facilities and emergency shower must be made available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side shields or goggles.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapor/aerosol release.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Clear, yellow liquid

ODOR:

Pine/citrus

ODOR THRESHOLD:

Not applicable

pH:

10.3-10.7

MELTING POINT / FREEZING POINT:

≤ -10°C (14°F)

BOILING POINT/BOILING RANGE:

Approx. 100°C (212°F)

FLASH POINT:

52°C/126°F (TCC), 74°C/165°F (COC)

EVAPORATION RATE, water = 1:

1

FLAMMABILITY (SOLID, GAS):

Not applicable

VAPOR PRESSURE, mm Hg AT 20°C (68°F):

Equal to water

VAPOR DENSITY (Air = 1):

Not available

RELATIVE DENSITY AT 20°C (68°F):

0.985-0.995

SOLUBILITY IN WATER:

Forms stable emulsion

PARTITION COEFFICIENT, N-OCTANOL/WATER:

Not available

AUTO-IGNITION TEMPERATURE:

225°C (437°F)

DECOMPOSITION TEMPERATURE:

Not available

VISCOSITY:

< 10 cps

FLAMMABLE LIMITS:**UPPER:** Not available **LOWER:** Not available

10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

Avoid all sources of ignition: open flame. Store away from incompatible materials.

Incompatible Materials

Strong oxidizing materials, acids, amphoteric or light metals.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to release of irritating gases and vapors such as oxides of carbon, nitrogen, and sulfur as well as other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity**ATE_{mix}** – LD50 oral – approx. >5775 mg/kg (rat), LD50 dermal – approx. >10,000 mg/kg (rabbit), LC50 inhalation-mists – >20 mg/L approx. – 6 h (rat)

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|-------------------------|----------------------|-------------------------------|
| dipentene 68956-56-9 | >2000 mg/kg (rat) | Not listed | Not listed |
| ethanolammonium dodecylbenzenesulfonate 26836-07-7 | Not listed | Not listed | Not listed |
| d-limonene 5989-27-5 | 4400 mg/kg (rat) | >5000 mg/kg (rabbit) | Not listed |
| alcohols, C9-C11, ethoxylated 68439-46-3 | >2000 mg/kg (rat) | >2000 mg/kg (rabbit) | Not listed |
| diethylene glycol monobutyl ether 112-34-5 | 3384 mg/kg (rat) | 2700 mg/kg (rabbit) | Not listed |
| 2-aminoethanol 141-43-5 | 1720 mg/kg (rat) | 1000 mg/kg (rabbit) | Not listed |
| tetrasodium ethylenediaminetetraacetate 64-02-8 | >1780-~2000 mg/kg (rat) | Not listed | >1 mg/L (aerosol) (rat) – 6 h |

Information on likely sources of exposure**Ingestion**

May be fatal if swallowed and enters airways.

Inhalation

May cause respiratory irritation and possible damage.

Skin corrosion/irritation Causes skin irritation and possible sensitization.
Serious eye damage/irritation Causes serious eye damage.

Delayed and immediate effects and also chronic effects from short and long-term exposure

| | | |
|--|----------------------------|--|
| Respiratory or skin sensitization | d-limonene (CAS 5989-27-5) | 1 May cause an allergic skin reaction |
| | dipentene (CAS 68956-56-9) | 1 May cause an allergic skin reaction |
| Germ cell mutagenicity | No information available. | |
| Carcinogenicity | No information available | |
| Reproductive toxicity | No information available | |
| STOT - single exposure | d-limonene (CAS 5989-27-5) | 3 May cause respiratory irritation |
| | dipentene (CAS 68956-56-9) | 3 May cause respiratory irritation |
| STOT - repeated exposure | No information available | |
| Aspiration Hazard | d-limonene (CAS 5989-27-5) | 1 May be fatal if swallowed and enters airways |
| | dipentene (CAS 68956-56-9) | 1 May be fatal if swallowed and enters airways |

Symptoms related to the physical, chemical and toxicological characteristics

Eye damage or irritation. Skin irritation or sensitization. Ingestion may cause irritation or burns of mouth, esophagus and stomach, abdominal pain, nausea, vomiting, diarrhea. Inhalation may cause irritation of nose, mouth, and upper respiratory tract.

12. ECOLOGICAL INFORMATION

Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

| Chemical Name | Fish | Waterflea | Algae |
|--|---|---------------------------------------|---|
| d-limonene 5989-27-5 | 0.702 mg/L: 96 h fathead minnow LC50 | 69.6 mg/L: 48 h daphnia pulex EC50 | Not available |
| alcohols, C9-C11, ethoxylated 68439-46-3 | 5-10 mg/L: 96 h LC50 | 5-10 mg/L: 48 h EC50 | 10-100 mg/L: 72 h EC50 |
| diethylene glycol monobutyl ether 112-34-5 | 1300 mg/L: 96 h lepomis macrochirus LC50 | Not available | >100 mg/L: 96 h desmodesmus subspicatus EC50 |
| 2-aminoethanol 141-43-5 | 150 mg/L: 96 h rainbow trout LC50 | Not available | Not available |
| tetrasodium ethylenediaminetetraacetate 64-02-8 | >100 mg/L: 96 h lepomis macrochirus LC50 | >100 mg/L: 48 h daphnia magna | >100 mg/L: 72 h green alage EC50 |

Persistence and degradability

Expected to be potentially biodegradable.

Bioaccumulative potential

Accumulation in organisms is not to be expected.

Mobility in soil

No information available

Other adverse effects

Do not release untreated into natural waters. No other adverse environmental effects are expected.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

| | |
|--|---|
| UN Number: | 2924 |
| UN Proper Shipping Name: | Flammable Liquid, Corrosive, N.O.S. (terpenes, ethanolamine solution) |
| Transport Hazard Class(es) | |
| Class: | TDG: 3 (8) US DOT: 3 (8) IMDG: 3 (8) |
| Label(s): | 3 (8) |
| Packing Group: | III |
| Marine Pollutant: | No |
| Special precautions for user: | None established |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | Not determined |

15. REGULATORY INFORMATION

Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

HMIS Information:

| | |
|---------------|---|
| Health: | 2 |
| Flammability: | 2 |
| Reactivity: | 0 |

16. OTHER INFORMATION**Preparation Date**

5 April 2016

Revision Date

2 July 2025

Revision Note**Revision 2** - Modifications to Section 1**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS