

### 1. Product and Company Identification

**Product Code:** C395  
**Product Name:** Deep Defend  
**Company Name:** CYCLO INDUSTRIES, INC.  
902 SOUTH US HIGHWAY 1  
JUPITER, FL 33477  
**Phone Number:** (800)843-7813

**Web site address:** www.cyclo.com  
**Email address:** ehs@cyclo.com

**Emergency Contact:** First Aid Emergency (800)752-7869  
CHEMTREC (703) 527-3887 (800)424-9300

**Information:** First Aid Emergency (Outside U.S.) (312)906-6194

### 2. Hazards Identification

**Acute Toxicity: Inhalation, Category 4**  
**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Skin, Category 4**  
**Skin Corrosion/Irritation, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 2A**  
**Flammable Gases, Category 1**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** H220: Extremely flammable gas.  
H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H280: Contents under pressure. May explode if heated.

**GHS Precaution Phrases:** P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.  
P242: Use only non-sparking tools.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381: Eliminate all ignition sources if safe to do so.

**GHS Response Phrases:** P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P363: Wash contaminated clothing before reuse.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**GHS Storage and Disposal Phrases:** P501: Dispose of contents/container in accordance with local/regional/national/international regulation.



P403: Store in well-ventilated place.

P405: Store locked up.

**Potential Health Effects (Acute and Chronic):** No data available.

**Medical Conditions Generally Aggravated By Exposure:** None known when used as directed.

### 3. Composition/Information on Ingredients

| CAS #     | Hazardous Components (Chemical Name) | Concentration |
|-----------|--------------------------------------|---------------|
| 7732-18-5 | Water                                | 80.0 -90.0 %  |
| 106-97-8  | Butane                               | 3.0 %         |
| 111-76-2  | Ethanol, 2-Butoxy-                   | 2.0 %         |
| NA        | Amphoteric Polymer                   | 2.0 %         |
| NA        | Amine Carboxylate                    | 2.0 %         |
| 74-98-6   | Propane                              | 1.0 %         |

### 4. First Aid Measures

**Emergency and First Aid Procedures:** If swallowed, do not induce vomiting o. If inhaled, remove to fresh air. Apply artificial respiration if breathing has stopped. In case of skin contact, wipe off with towel. Wash with soap and water. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call physician immediately if adverse reaction occurs.

### 5. Fire Fighting Measures

**Flammability Classification:** NFPA Level 1 Aerosol

**Flash Pt:** -156.00 F (-104.4 C)

**Explosive Limits:** LEL: 2.1 UEL: 13

**Autoignition Pt:** No data.

**Suitable Extinguishing Media:** Foam, alcohol foam, CO<sub>2</sub>, dry chemical, water fog.

**Fire Fighting Instructions:** Use of NIOSH self-contained breathing apparatus in confined areas. Use water spray to cool fire-exposed containers.

**Flammable Properties and Hazards:** Flammable vapors may travel along floor to be ignited by distant ignition sources. Containers exposed to fire may develop sufficient internal pressure to rupture with explosive force.

**Hazardous Combustion Products:** No data available.

### 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** Eliminate all ignition sources (vapor flammable). Ventilate area. At area where vapors may collect, wear SCBA breathing apparatus. Small spills should be flushed with large amounts of water. Large spills should be absorbed on non-flammable absorbent material for disposal.

### 7. Handling and Storage

**Precautions To Be Taken in Handling:** Keep away from heat/sparks/open flames/hot surfaces - No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face



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protection. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Keep out of the reach of children.

**Precautions To Be Taken in Storing:** Store and use in cool, dry, well-ventilated areas.

### 8. Exposure Controls/Personal Protection

| CAS #     | Partial Chemical Name | OSHA TWA      | ACGIH TWA       | Other Limits |
|-----------|-----------------------|---------------|-----------------|--------------|
| 7732-18-5 | Water                 | No data.      | No data.        | No data.     |
| 106-97-8  | Butane                | No data.      | TLV: (800 ppm)  | No data.     |
| 111-76-2  | Ethanol, 2-Butoxy-    | PEL: 50 ppm   | TLV: 20 ppm     | No data.     |
| NA        | Amphoteric Polymer    | No data.      | No data.        | No data.     |
| NA        | Amine Carboxylate     | No data.      | No data.        | No data.     |
| 74-98-6   | Propane               | PEL: 1000 ppm | TLV: (2500 ppm) | No data.     |

**Respiratory Equipment (Specify Type):** None necessary when product is used as directed. Avoid prolonged or repeated breathing of vapors.

**Eye Protection:** None necessary when product is used as directed, however, the use of safety glasses with splash guards or full face shield is recommended.

**Protective Gloves:** None necessary when product is used as directed. Solvent resistant for prolonged or repeated contact.

**Other Protective Clothing:** No data available.

**Engineering Controls (Ventilation etc.):** Always provide adequate ventilation. Local exhaust preferred. Mechanical exhaust acceptable.

### 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Aerosol product.

**pH:** No data.

**Melting Point:** No data.

**Boiling Point:** -44.00 F (-42.2 C) - 33.60 F (0.9 C)

**Flash Pt:** -156.00 F (-104.4 C)

**Evaporation Rate:** No data.

**Flammability (solid, gas):** No data available.

**Explosive Limits:** LEL: 2.1 UEL: 13

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Specific Gravity (Water = 1):** .97

**Solubility in Water:** Complete



**Octanol/Water Partition Coefficient:** No data.  
**Percent Volatile:** 6.78 % by weight.  
**Autoignition Pt:** No data.  
**Decomposition Temperature:** No data.  
**Viscosity:** No data.

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** Application to hot surfaces. Storage above 120F. Exposure to open flame.  
**Incompatibility - Materials To Avoid:** Oxidizing agents.  
**Hazardous Decomposition or Byproducts:** May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. Toxicological Information

**Toxicological Information:** CAS# 7732-18-5:  
Other Studies:, TDLo, Oral, Species: Rabbit, 3502. GM/KG, 2 W.  
Results:  
Behavioral: Convulsions or effect on seizure threshold.  
Behavioral: Muscle weakness.  
Related to Chronic Data - death.  
- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926  
  
Acute toxicity, TDLo, Oral, Infant, 333.0 GM/KG.  
Results:  
Behavioral: Convulsions or effect on seizure threshold.  
Gastrointestinal:Hypermotility, diarrhea.  
Nutritional and Gross Metabolic:Changes in:Body temperature increase.  
- Archives of Disease in Childhood., British Medical Journal, Box 560B, Kennebunkport, ME 04046, Vol/p/yr: 54,551, 1979  
  
Acute toxicity, TDLo, Oral, Human, 42.86 GM/KG.  
Results:  
Behavioral: Tremor.  
Behavioral: Muscle contraction or spasticity.  
- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926  
  
Acute toxicity, LDLO, Rectal, Species: Woman, 180.0 GM/KG, 28 H.  
Results:  
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Mydriasis (pupillary dilation).  
Behavioral: Convulsions or effect on seizure threshold.  
Gastrointestinal:Nausea or vomiting.  
- Journal of the American Medical Association, American Medical Association, 535 N.



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Dearborn St., Chicago, IL 60610, Vol/p/yr: 104,1569, 1935

Acute toxicity, LD50, Oral, Rat, > 90.00 ML/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

- Food Research., For publisher information, see JFDSA, Champaign, IL, Vol/p/yr: 21,348, 1956

Acute toxicity, LD50, Intraperitoneal, Mouse, 190.0 GM/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

Kidney, Ureter, Bladder: Changes in bladder weight.

- National Technical Information Service, Vol/p/yr: AD628-313,

Acute toxicity, LD50, Intravenous, Mouse, 25.00 GM/KG.

Results:

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Related to Chronic Data - death.

- Microvascular Research., Academic Press, Inc., 1 E. First St., Duluth, MN 55802,  
Vol/p/yr: 8,320, 1974

Acute toxicity, LDLO, Oral, Dog, 629.0 GM/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

Kidney, Ureter, Bladder: Changes in bladder weight.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428  
E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Oral, Species: Cat, 320.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428  
E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Oral, Species: Rabbit, 368.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428  
E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Intravenous, Species: Rabbit, 13.00 GM/KG.

Results:

Blood: Other hemolysis with or without anemia.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428  
E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Rectal, Species: Rabbit, 450.0 GM/KG.

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Mydriasis (pupillary  
dilation).

Behavioral: Muscle contraction or spasticity.

Gastrointestinal: Changes in structure or function of salivary glands.

- Journal of the American Medical Association, American Medical Association, 535 N.



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Revision: 06/20/2016  
Supersedes Revision: 10/21/2014

Dearborn St., Chicago, IL 60610, Vol/p/yr: 104,1569, 1935

Acute toxicity, LDLO, Oral, Species: Guinea pig, 429.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams &amp; Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

| CAS #     | Hazardous Components (Chemical Name) | NTP  | IARC | ACGIH | OSHA |
|-----------|--------------------------------------|------|------|-------|------|
| 7732-18-5 | Water                                | n.a. | n.a. | n.a.  | n.a. |
| 106-97-8  | Butane                               | n.a. | n.a. | n.a.  | n.a. |
| 111-76-2  | Ethanol, 2-Butoxy-                   | n.a. | 3    | A3    | n.a. |
| NA        | Amphoteric Polymer                   | n.a. | n.a. | n.a.  | n.a. |
| NA        | Amine Carboxylate                    | n.a. | n.a. | n.a.  | n.a. |
| 74-98-6   | Propane                              | n.a. | n.a. | n.a.  | n.a. |

## 12. Ecological Information

No data available.

## 13. Disposal Considerations

**Waste Disposal Method:** Dispose of contents/container in accordance with local/regional/national/international regulation.

## 14. Transport Information

### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Consumer Commodity  
**DOT Hazard Class:** ORM-D ORM-D  
**UN/NA Number:**

### LAND TRANSPORT (European ADR/RID):

**ADR/RID Shipping Name:** Aerosols, Ltd. Qty.  
**UN Number:** 1950  
**Hazard Class:** N.A. **ADR Classification:** 2.1

### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Aerosols, Ltd. Qty.  
**UN Number:** 1950 **Packing Group:**  
**Hazard Class:** N.A. **IMDG Classification:** 2.1  
**IMDG MFAG Number:****IMDG EMS Page:**

### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Aerosols, flammable, 2.1, Ltd Qty  
**UN Number:** 1950  
**Hazard Class:** N.A.



**15. Regulatory Information**

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

| CAS #     | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI)  |
|-----------|--------------------------------------|--------------|-----------|---------------|
| 7732-18-5 | Water                                | No           | No        | No            |
| 106-97-8  | Butane                               | No           | No        | No            |
| 111-76-2  | Ethanol, 2-Butoxy-                   | No           | No        | Yes-Cat. N230 |
| NA        | Amphoteric Polymer                   | No           | No        | No            |
| NA        | Amine Carboxylate                    | No           | No        | No            |
| 74-98-6   | Propane                              | No           | No        | No            |

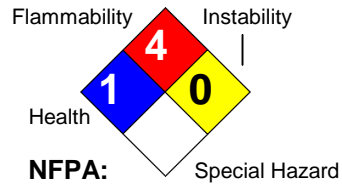
| CAS #     | Hazardous Components (Chemical Name) | Other US EPA or State Lists   |
|-----------|--------------------------------------|---|
| 7732-18-5 | Water                                | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No  |
| 106-97-8  | Butane                               | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 0273; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No                           |
| 111-76-2  | Ethanol, 2-Butoxy-                   | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes - Cat.; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: Yes - 1; SC TAP: Yes - Cat.; WI Air: Yes |
| NA        | Amphoteric Polymer                   | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No   |
| NA        | Amine Carboxylate                    | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No   |
| 74-98-6   | Propane                              | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1594; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No                                |

| CAS #     | Hazardous Components (Chemical Name) | International Regulatory Lists                          |
|-----------|--------------------------------------|---|
| 7732-18-5 | Water                                | Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes |
| 106-97-8  | Butane                               | Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes |
| 111-76-2  | Ethanol, 2-Butoxy-                   | Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes |
| NA        | Amphoteric Polymer                   | Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No   |
| NA        | Amine Carboxylate                    | Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No   |
| 74-98-6   | Propane                              | Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes |

### 16. Other Information

Revision Date: 06/20/2016

Hazard Rating System:



**Additional Information About** NOT FOR SALE IN CA.

**This Product:**

**Company Policy or**

**Disclaimer:**

Cyclo Industries, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Cyclo Industries, Inc. makes no representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Cyclo Industries, Inc. will not be responsible for damages resulting from use of or reliance upon this information.