

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

### Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** C10  
**Product Name:** Break Away Fast Penetrating Oil
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
**Relevant identified uses:** Penetrant
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- |                          |   |                                       |
|--------------------------|---|---------------------------------------|
| <b>Company Name:</b>     | CYCLO INDUSTRIES, INC.<br>902 SOUTH US HIGHWAY 1<br>JUPITER, FL 33477 USA | <b>Phone Number:</b><br>(800)843-7813 |
| <b>Web site address:</b> | www.cyclo.com   |                                       |
| <b>Email address:</b>    | ehs@cyclo.com   |                                       |
| <b>Information:</b>      | First Aid Emergency (Outside U.S.)  | (312)906-6194                         |
- 1.4 Emergency telephone number:**
- |                           |                         |               |
|---------------------------|-------------------------|---------------|
| <b>Emergency Contact:</b> | First Aid Emergency     | (800)752-7869 |
|                           | CHEMTREC (703) 527-3887 | (800)424-9300 |

### Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**  
**Flammable Aerosols, Category 1**  
**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 2**
- 2.2 Label Elements:**

**GHS Signal Word:** Danger**GHS Hazard Phrases:**

H222: Extremely flammable aerosol.  
H229: Pressurized container: may burst if heated.  
H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.

**GHS Precaution Phrases:**

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.  
P211: Do not spray on an open flame or any other ignition source.  
P241: Use explosion-proof electrical/ventilating/lighting equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P251: Pressurized container: Do not pierce or burn even after use.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P270: Do not eat, drink or smoke when using this product.



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P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

### 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:

P403+235: Store in cool/well-ventilated place.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 deg C/122 F.

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

## 2.3 Adverse Human Health No data available.

### Effects and Symptoms:

**Medical Conditions** Repeated contact with skin may irritate pre-existing skin conditions.

### Generally Aggravated

### By Exposure:

## Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
64742-52-5	Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	50.0 -70.0 %	265-155-0 649-465-00-7	Carcinogen 1B: H350
68476-86-8	Liquified petroleum gas, sweetened	20.0 -30.0 %	270-705-8 649-203-00-1	Comp. Gas: H280 Flam. Gas 1: H220 Mutagen 1B: H340 Carcinogen 1B: H350
108-94-1	Cyclohexanone	1.0 -5.0 %	203-631-1 606-010-00-7	Flam. Liq. 3: H226 Acute Tox.(I) 4: H332

## Section 4. First Aid Measures

**4.1 Description of First Aid Measures:** If swallowed, do not induce vomiting. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of skin contact, wash with soap and large amounts of water. Remove contaminated clothing. 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.

**4.2 Important Symptoms and Effects, Both Acute and Delayed:** Eyes: Contact with eyes may cause irritation, redness and pain. Causes moderate to severe eye irritation.

Skin: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Prolonged contact with liquid may cause slight temporary irritation.

Inhalation: Prolonged inhalation may be harmful. Inhaling large quantities of mist or vapor may cause some irritation to nose, throat and lungs. Avoid breathing mists from this product. Exposure to high doses may cause central nervous system depression



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(anesthetic-like effects). Doses which cause anesthetic-like effects may also cause adverse effects in liver, lungs and kidneys.

Ingestion: Ingestion is not considered to be a hazard encountered in normal industrial use. This material may be harmful or fatal if swallowed. Aspiration hazard. Low order of toxicity. May cause mild nausea and abdominal discomfort.

### Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Foam, carbon dioxide, dry chemical, alcohol-resistant foam.
- 5.2 Flammable Properties and Hazards:** Vapors can travel to a source of ignition and flash back. Extremely flammable. Material will readily ignite at room temperatures in the presence of an ignition source. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Contents under pressure. Containers may explode if exposed to high temperatures.
- No data available.
- Flammability Classification:** NFPA Level 3 Aerosol
- Flash Pt:** -141.00 F (-96.1 C) Method Used: TAG Closed Cup
- Explosive Limits:** LEL: .7 UEL: 9.5
- Autoignition Pt:** No data.
- 5.3 Fire Fighting Instructions:** Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Keep containers and surroundings cool with water spray. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulating in low areas.

### Section 6. Accidental Release Measures

- 6.1 Protective Precautions, Protective Equipment and Emergency Procedures:** No data available.
- 6.2 Environmental Precautions:** No data available.
- 6.3 Methods and Material For Containment and Cleaning Up:** Use recommended personal protective equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways.

### Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Keep away from heat/sparks/open flames/hot surfaces - No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.
- Take precautionary measures against static discharge. Pressurized container: Do not pierce or burn even after use. Avoid breathing dust/fume/gas/mist/vapors/spray. Do



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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 protection. Keep out of the reach of children.

- 7.2 Precautions To Be Taken in Storing:** Store in cool/well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 deg C/122 F.

## Section 8. Exposure Controls/Personal Protection

### 8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
108-94-1	Cyclohexanone	ACGIH TLV	TLV: 20 ppm STEL: 50 ppm	
		Europe	TWA: 40.8 mg/m3 (10 ppm) STEL: 81.6 mg/m3 (20 ppm)	Skin Absorption
		OSHA PELs	PEL: 50 ppm	
		Britain EH40	TWA: 41 mg/m3 (10 ppm) STEL: 82 mg/m3 (20 ppm)	Skin Absorption

### 8.2 Exposure Controls:

- 8.2.1 Engineering Controls (Ventilation etc.):** Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

#### 8.2.2 Personal protection equipment:

**Eye Protection:** Wear safety glasses with side shields or goggles when using this product.

**Protective Gloves:** Gloves resistant to petroleum distillates should be worn.

**Other Protective Clothing:** Wear impervious protective clothing, including boots, gloves, protective apron or coveralls to prevent skin contact.

**Respiratory Equipment (Specify Type):** A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Work/Hygienic/Maintenance Practices:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Use spark-proof tools and explosion proof equipment. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin and clothing. No data available.



## Section 9. Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid  
**Appearance and Odor:** Light amber brown liquid with solvent odor.  
**pH:** No data.  
**Melting Point:** No data.  
**Boiling Point:** -94.00 C (-137.2 F)  
**Flash Pt:** -141.00 F (-96.1 C) Method Used: TAG Closed Cup  
**Evaporation Rate:** No data.  
**Flammability (solid, gas):** No data available.  
**Explosive Limits:** LEL: .7 UEL: 9.5  
**Vapor Pressure (vs. Air or mm Hg):** No data.  
**Vapor Density (vs. Air = 1):** No data.  
**Specific Gravity (Water = 1):** .820  
**Solubility in Water:** No data.  
**Octanol/Water Partition Coefficient:** No data.  
**Autoignition Pt:** No data.  
**Decomposition Temperature:** No data.  
**Viscosity:** No data.

### 9.2 Other Information

**Percent Volatile:** 22.18 % by weight.

## Section 10. Stability and Reactivity

**10.1 Reactivity:** No data available.  
**10.2 Stability:** Unstable [ ] Stable [ X ]  
**10.3 Conditions To Avoid - Hazardous Reactions:** No data available.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**10.4 Conditions To Avoid - Instability:** Open flames and high temperatures. Contact with strong oxidizing agents. Avoid all sources of ignition, welding arcs and open flames. Keep product away from temperatures in excess of 120F (49C). Do not crush, puncture or incinerate container. Do not expose to direct sunlight or store where temperatures could exceed 120F.  
**10.5 Incompatibility - Materials To Avoid:** Strong oxidizing agents. Strong bases.  
**10.6 Hazardous Decomposition or Byproducts:** Carbon oxides; fumes.



## Section 11. Toxicological Information

### 11.1 Information on Toxicological Effects:

LD50: >5000 mg/kg

LC50: >4600 ppm

CAS# 64742-52-5:

Mutagenicity:, Mutation test: Mutation in microorganisms., 10.00 UL/PLAT, Bacteria - Salmonella typhimurium,.

Results:

Behavioral: Coma.

Biochemical:Metabolism (intermediary): Other.

- Cell Biology and Toxicology., Princeton Scientific Pub., Inc., 301 N. Harrison St., CN 5279, Princeton, NJ 08540, Vol/p/yr: 2,63, 1986

Acute toxicity, LD (Lethal dose), Oral, Rat, > 5.000 GM/KG.

Results:

Tumorigenic: Neoplastic by RTECS criteria.

Lungs, Thorax, or Respiration: Tumors.

Tumorigenic:Tumors at site of application.

- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,133, 1990

Acute toxicity, LD (Lethal dose), Skin, Species: Rabbit, > 5.000 GM/KG.

Results:

Behavioral: Coma.

Biochemical:Metabolism (intermediary): Other.

- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,133, 1990

Tumorigenic Effects:, TDLo, Skin, Mouse, 480.0 GM/KG, 80 W.

Results:

Tumorigenic: Neoplastic by RTECS criteria.

Skin and Appendages: Other: Tumors.

Tumorigenic:Tumors at site of application.

- United States Environmental Protection Agency, Office of Pesticides and Toxic Substances., U.S. Environmental Protection Agency, Office of Pesticides and Toxic Substances, 401 M St., SW, Washington, DC 20460, Vol/p/yr: 8EHQ-0887-,

Tumorigenic Effects:, TDLo, Skin, Mouse, 402.0 GM/KG, 78 W.

Results:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Skin and Appendages: Other: Tumors.

Tumorigenic:Tumors at site of application.

- British Journal of Cancer., Macmillan Press Ltd, Houndmills, Basingstoke, Hampshire RG21 2XS UK, Vol/p/yr: 48,429, 1983

Tumorigenic Effects:, TDLo, Skin, Mouse, 398.0 GM/KG, 22 W.

Results:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Skin and Appendages: Other: Tumors.

Tumorigenic:Tumors at site of application.



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- British Journal of Cancer., Macmillan Press Ltd, Houndmills, Basingstoke, Hampshire  
RG21 2XS UK, Vol/p/yr: 48,429, 1983

Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, Severe.

Results:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Skin and Appendages: Other: Tumors.

Tumorigenic: Tumors at site of application.

- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,133, 1990

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
64742-52-5	Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	n.a.	n.a.	n.a.	n.a.
68476-86-8	Liquified petroleum gas, sweetened	n.a.	n.a.	n.a.	n.a.
108-94-1	Cyclohexanone	n.a.	3	A3	n.a.

### Section 12. Ecological Information

<b>12.1 Toxicity:</b>	No data available.
<b>12.2 Persistence and Degradability:</b>	No data available.
<b>12.3 Bioaccumulative Potential:</b>	No data available.
<b>12.4 Mobility in Soil:</b>	No data available.
<b>12.5 Results of PBT and vPvB assessment:</b>	No data available.
<b>12.6 Other adverse effects:</b>	No data available.

### Section 13. Disposal Considerations

<b>13.1 Waste Disposal Method:</b>	Dispose of contents/container in accordance with local/regional/national/international regulation.
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### Section 14. Transport Information

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

**ADR/RID Shipping Name:**

**UN Number:** 1950

**Hazard Class:** 2.1 - FLAMMABLE GAS

#### 14.2 MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Aerosols, Ltd. Qty.

**UN Number:** 1950

**Hazard Class:** 2.1 - FLAMMABLE GAS

**Packing Group:**

**IMDG Classification:** 2.1

**IMDG MFAG Number:**

**IMDG EMS Page:**

**Marine Pollutant:** No



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**14.3 AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Aerosols, flammable, 2.1, Ltd. Qty.

**UN Number:** 1950

**Hazard Class:** 2.1 - FLAMMABLE GAS      **IATA Classification:** 2.1

### Section 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)
64742-52-5	Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	No	No	No
68476-86-8	Liquified petroleum gas, sweetened	No	No	No
108-94-1	Cyclohexanone	No	Yes 5000 LB	No

**CAS #      Hazardous Components (Chemical Name)****Other US EPA or State Lists**

64742-52-5	Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	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
68476-86-8	Liquified petroleum gas, sweetened	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
108-94-1	Cyclohexanone	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: Part 5; NC TAP: No; NJ EHS: No; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: Yes

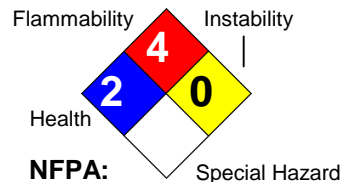
**CAS #      Hazardous Components (Chemical Name)****International Regulatory Lists**

64742-52-5	Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
68476-86-8	Liquified petroleum gas, sweetened	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
108-94-1	Cyclohexanone	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

### Section 16. Other Information

**Revision Date:** 08/02/2017

**Hazard Rating System:**



**Additional Information About** No data available.

**This Product:**

**Company Policy or**

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refers. Accordingly, Cyclo Industries, Inc. will not be responsible for damages resulting from use of or reliance upon this information.