1. Product and Company Identification

Material name: EternaClean (aerosol)

Version #: 01

Issue date: 06-21-2012

Revision date: -

Supersedes date: -

CAS #: Mixture

Product use: General purpose degreaser.

Manufacturer/Supplier: Eternabond
175 N. Archer Ave
Mundelein, IL 60060
US

General Information: 847-837-9400

Emergency: 24-Hour Emergency: Chemtrec 1-800-424-9300

2. Hazards Identification

Physical state: Liquid.

Appearance: Clear, colorless liquid.

Emergency overview: WARNING

Extremely flammable liquid and vapor - vapor may cause flash fire. Causes skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory system. Harmful: may cause lung damage if swallowed. High vapor concentrations may cause central nervous system effects.

OSHA regulatory status: This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects:

- Eyes: Causes eye irritation.
- Skin: Causes skin irritation.
- Inhalation: In high concentrations, vapors may be irritating to the respiratory system. High vapor concentrations may cause central nervous system effects.
- Ingestion: May cause lung damage if swallowed.


Potential environmental effects: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>70-90</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>5-15</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>5-15</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

- Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Remove contact lenses, if present and easy to do. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.
Skin contact
Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Inhalation
If symptomatic, move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

Ingestion
Call a physician or poison control center immediately. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration.

Notes to physician
In case of shortness of breath, give oxygen. Symptoms may be delayed. Keep victim under observation. Treat symptomatically.

General advice
If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire Fighting Measures
Flammable properties
Extremely flammable liquid and vapor - vapor may cause flash fire.

Extinguishing media

Fire fighting equipment/instructions
Self-contained breathing apparatus operated in positive pressure mode and full protective clothing must be worn in case of fire.

Specific methods
Use water spray to cool unopened containers. Move container from fire area if it can be done without risk.

Hazardous combustion products
Carbon oxides.

6. Accidental Release Measures
Personal precautions
Wear appropriate personal protective equipment (See Section 8).

Methods for cleaning up
Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

7. Handling and Storage
Handling
Keep away from heat, sparks and open flame. Wear appropriate personal protective equipment (See Section 8).

Storage
Keep away from heat, sparks, and flame. Keep container tightly closed in a cool, well-ventilated place.

8. Exposure Controls / Personal Protection
Occupational exposure limits

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td>750 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>30000 ppm</td>
</tr>
<tr>
<td>Heptane (CAS 142-82-5)</td>
<td>TWA</td>
<td>5000 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>PEL</td>
<td>2400 mg/m3</td>
</tr>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>PEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Heptane (CAS 142-82-5)</td>
<td>PEL</td>
<td>5000 ppm</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>2000 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
</tbody>
</table>
### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td>1800 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>750 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1200 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>54000 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>30000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9000 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5000 ppm</td>
</tr>
<tr>
<td>Heptane (CAS 142-82-5)</td>
<td>STEL</td>
<td>2050 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1640 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>250 ppm</td>
</tr>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>15000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5000 ppm</td>
</tr>
<tr>
<td>Heptane (CAS 142-82-5)</td>
<td>STEL</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td>750 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>30000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5000 ppm</td>
</tr>
<tr>
<td>Heptane (CAS 142-82-5)</td>
<td>STEL</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

### Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td>2380 mg/m3</td>
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<tr>
<td></td>
<td>TWA</td>
<td>1000 ppm</td>
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<tr>
<td></td>
<td></td>
<td>1190 mg/m3</td>
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<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>54000 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>30000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9000 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5000 ppm</td>
</tr>
<tr>
<td>Heptane (CAS 142-82-5)</td>
<td>STEL</td>
<td>2050 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1640 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

### Mexico. Occupational Exposure Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>STEL</td>
<td>3000 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1260 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2400 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Carbon dioxide (CAS 124-38-9)</td>
<td>STEL</td>
<td>27000 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>15000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9000 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5000 ppm</td>
</tr>
<tr>
<td>Heptane (CAS 142-82-5)</td>
<td>STEL</td>
<td>2000 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1600 mg/m3</td>
</tr>
</tbody>
</table>
## Mexico. Occupational Exposure Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering controls</td>
<td></td>
<td>400 ppm</td>
</tr>
<tr>
<td>Personal protective equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye / face protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General hygiene considerations</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Engineering controls
Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

#### Eye / face protection
Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

#### Skin protection
Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

#### Respiratory protection
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.

### General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical & Chemical Properties

### Appearance
Clear, colorless liquid.

### Physical state
Liquid.

### Form
Aerosol.

### Color
Clear, colorless.

### Odor
Solvent.

### Odor threshold
Not available.

### pH
Not available.

### Vapor pressure
Not available.

### Vapor density
2 (Air=1)

### Boiling point
132 °F (55.6 °C)

### Melting point/Freezing point
< -100 °F (< -73.3 °C)

### Solubility (water)
Slightly soluble.

### Specific gravity
0.78

### Flash point
< 0 °F (< -17.8 °C) Tag Closed Cup

### Flammability limits in air, upper, % by volume
12.8 %

### Flammability limits in air, lower, % by volume
2.6 %

### Auto-ignition temperature
Not available.

### VOC
0.59 lb/gal
70.2 g/l

### Evaporation rate
Fast

### Percent volatile
9 %

### Partition coefficient (n-octanol/water)
No data available.

## 10. Chemical Stability & Reactivity Information

### Chemical stability
Material is stable under normal conditions.

### Conditions to avoid
Keep away from heat, sparks, and flame.

### Incompatible materials
Strong oxidizing agents.

### Hazardous decomposition products
No hazardous decomposition products are known.

### Possibility of hazardous reactions
Hazardous polymerization does not occur.
11. Toxicological Information

Sensitization
No sensitizing effects known.

Acute effects
Causes skin and eye irritation. In high concentrations, vapors may be irritating to the respiratory system. High vapor concentrations may cause central nervous system effects. May cause lung damage if swallowed.

Carcinogenicity
Not classified.

ACGIH Carcinogens
Acetone (CAS 67-64-1) A4 Not classifiable as a human carcinogen.

12. Ecological Information

Ecotoxicity
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability
No data available.

Bioaccumulation / Accumulation
No data available.

Partition coefficient
No data available.

Mobility in environmental media
No data available.

13. Disposal Considerations

Waste codes
D001: Waste Flammable material with a flash point <140 °F

Disposal instructions
Dispose of contents/container in accordance with local/regional/national/international regulations.

When this product as supplied is to be discarded as waste, it may meet the definition of a RCRA waste under 40 CFR 261.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT
Basic shipping requirements:
UN number UN1950
Proper shipping name Aerosols, flammable
Hazard class 2.1
Additional information:
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

IATA
UN number UN1950
UN proper shipping name Aerosols, flammable
Transport hazard class(es) 2.1
ERG code 10L

IMDG
UN number UN1950
UN proper shipping name Aerosols, flammable
Transport hazard class(es) 2.1

TDG
Proper shipping name AEROSOLS, flammable
Hazard class 2.1
UN number UN1950
Marine pollutant D
Special provisions 80

15. Regulatory Information

US federal regulations
This product is hazardous according to OSHA 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)
Acetone: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Immediate Hazard</th>
<th>Delayed Hazard</th>
<th>Fire Hazard</th>
<th>Pressure Hazard</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 302 extremely hazardous substance (40 CFR 355, Appendix A)</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section 311/312 (40 CFR 370)</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)
Not controlled

WHMIS status

Controlled

WHMIS classification

B2 - Flammable Liquids
D2B - Other Toxic Effects-TOXIC

Inventory status

Country(s) or region | Inventory name | On inventory (yes/no)*
--- | --- | ---
Australia | Australian Inventory of Chemical Substances (AICS) | Yes
Canada | Domestic Substances List (DSL) | Yes
Canada | Non-Domestic Substances List (NDSL) | No
China | Inventory of Existing Chemical Substances in China (IECSC) | Yes
Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes
Europe | European List of Notified Chemical Substances (ELINCS) | No
Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes
Korea | Existing Chemicals List (ECL) | Yes
New Zealand | New Zealand Inventory | Yes
Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes
United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes

* A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

| Acetone (CAS 67-64-1) | Listed. |
| Carbon dioxide (CAS 124-38-9) | Listed. |
| Heptane (CAS 142-82-5) | Listed. |

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - New Jersey RTK - Substances: Listed substance

| Acetone (CAS 67-64-1) | Listed. |
| Carbon dioxide (CAS 124-38-9) | Listed. |
| Heptane (CAS 142-82-5) | Listed. |

US. Massachusetts RTK - Substance List

| Acetone (CAS 67-64-1) | Listed. |
| Carbon dioxide (CAS 124-38-9) | Listed. |
Heptane (CAS 142-82-5) Listed.

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Acetone (CAS 67-64-1) Listed.
Carbon dioxide (CAS 124-38-9) Listed.
Heptane (CAS 142-82-5) Listed.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 2
Flammability: 3
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 3
Instability: 0

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.