# SAFETY DATA SHEET

**CLEARCO 444 ADHESIVE SPRAY**

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>Mixture</td>
</tr>
<tr>
<td>CAS No.</td>
<td>Mixture</td>
</tr>
<tr>
<td>Trade Name</td>
<td>CLEARCO 444 ADHESIVE SPRAY</td>
</tr>
</tbody>
</table>

**Relevant identified uses of the substance or mixture and uses advised against**

<table>
<thead>
<tr>
<th>Identified Use(s)</th>
<th>Adhesive Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses Advised Against</td>
<td>None</td>
</tr>
</tbody>
</table>

**Company Identification**

<table>
<thead>
<tr>
<th>Telephone</th>
<th>(215) 366-7860</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax</td>
<td>(215) 366-7862</td>
</tr>
<tr>
<td>E-Mail</td>
<td><a href="mailto:info@clearcoproducts.com">info@clearcoproducts.com</a></td>
</tr>
</tbody>
</table>

**Emergency telephone number**

<table>
<thead>
<tr>
<th>Emergency Phone No.</th>
<th>CHEM TEL: 1-800-255-3924 (DOMESTIC)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+01-813-248-0585 (INTERNATIONAL)</td>
</tr>
</tbody>
</table>

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

| OSHA HCS (29 CFR 1910.1200) | Flam. Aerosol 1; Liquefied gas; Eye Irrit. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1 |

**Label elements**

<table>
<thead>
<tr>
<th>Hazard Symbol</th>
<th>DANGER</th>
</tr>
</thead>
</table>

**Signal word(s)**

<table>
<thead>
<tr>
<th>Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extremely flammable aerosol.</td>
</tr>
<tr>
<td>Contains gas under pressure; may explode if heated.</td>
</tr>
<tr>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
</tbody>
</table>

**Precautionary Statement(s)**

<table>
<thead>
<tr>
<th>Precautionary Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep away from heat/sparks/open flames/hot surfaces. – No smoking.</td>
</tr>
<tr>
<td>Do not spray on an open flame or other ignition source.</td>
</tr>
<tr>
<td>Do not pierce or burn, even after use.</td>
</tr>
<tr>
<td>Avoid breathing spray.</td>
</tr>
</tbody>
</table>
CLEARCO 444 ADHESIVE SPRAY

Wear protective gloves/eye protection.
Wash hands and exposed skin after use.
Use only outdoors or in a well-ventilated area.
Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

Other hazards
Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>% wt. *</th>
<th>CAS No.</th>
<th>Hazard classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>15 - 25</td>
<td>426260-76-6</td>
<td>Flam. Liq. 2; H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Asp. Tox. 1; H304</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2; H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 2, H401</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Acetone</td>
<td>15 - 25</td>
<td>67-64-1</td>
<td>Flam. Liq. 2; H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2; H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
<tr>
<td>Propane</td>
<td>10 - 20</td>
<td>74-98-6</td>
<td>Flam. Gas 1; H220</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Liquefied gas; H280</td>
</tr>
<tr>
<td>Butane</td>
<td>10 - 20</td>
<td>106-97-8</td>
<td>Flam. Gas 1; H220</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Liquefied gas; H280</td>
</tr>
<tr>
<td>Methyl Acetate</td>
<td>5 - 10</td>
<td>79-20-9</td>
<td>Flam. Liq. 2; H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2; H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
</tbody>
</table>

Additional Information - None
* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

**Description of first aid measures**

- **Inhalation**: Remove person to fresh air and keep comfortable for breathing. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

- **Skin Contact**: Wash affected skin with soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.

- **Eye Contact**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.

- **Ingestion**: Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately.
Most important symptoms and effects, both acute and delayed:
Aspiration of droplets may cause pulmonary oedema.

Indication of any immediate medical attention and special treatment needed:
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### SECTION 5: FIRE-FIGHTING MEASURES

**Extinguishing Media**
- **Suitable Extinguishing Media**: Extinguish with carbon dioxide, dry chemical, foam or water spray.
- **Unsuitable Extinguishing Media**: Do not use water jet.

**Special hazards arising from the substance or mixture**: Highly flammable vapor (flash point below 23°C).

**Advice for fire-fighters**: A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**
Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid contact with skin and eyes. Avoid breathing spray. Wear protective gloves/eye protection.

**Environmental precautions**
Prevent liquid entering sewers, basements and work pits.

**Methods and material for containment and cleaning up**
Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

**Reference to other sections**
None

**Additional Information**
None

### SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**
Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid contact with skin and eyes. Use product in a well-ventilated area only. Avoid breathing spray.

**Conditions for safe storage, including any incompatibilities**
- **Storage temperature**: Keep in a cool, well ventilated place. Protect from sunlight. Store at temperatures not exceeding 50 °C / 122 °F. Keep container tightly closed.
- **Incompatible materials**: This product should be stored away from sources of strong heat and oxidizing chemicals. Also avoid: acids, bases, reducing agents, peroxides, amines, ammonia, chlorine and halogens.

**Specific end use(s)**
Adhesive Product

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits**
## Clearco 444 Adhesive Spray

### Table: Substance, CAS No., PEL (OSHA), TLV (ACGIH)

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>(8hr TWA) PEL (OSHA)</th>
<th>(8hr TWA) TLV (ACGIH)</th>
<th>(STEL) PEL (OSHA)</th>
<th>(STEL) TLV (ACGIH)</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane, branched, cyclic, and linear</td>
<td>426260-76-6</td>
<td>500 ppm*</td>
<td>1500 mg/m³</td>
<td>-----</td>
<td>-----</td>
<td>*n-heptane</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>1000</td>
<td>500</td>
<td>-----</td>
<td>750</td>
<td>^NIC</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1000 ppm</td>
<td>Aspyx.</td>
<td>-----</td>
<td>-----</td>
<td>#</td>
</tr>
<tr>
<td>n-Butane</td>
<td>106-97-8</td>
<td>250 ppm</td>
<td>250 ppm</td>
<td>-----</td>
<td>-----</td>
<td></td>
</tr>
<tr>
<td>Methyl acetate</td>
<td>79-20-9</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>250 ppm</td>
<td>-----</td>
<td></td>
</tr>
</tbody>
</table>

^NIC = Notice of Intended Changes (ACGIH®); Aspyx. = Assure minimum oxygen content of work atmosphere.

### Recommended Monitoring Method

- NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C), NIOSH 1300 (Ketones I), NIOSH 1459 (Methyl Acetate)

### Exposure Controls

#### Appropriate Engineering Controls

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

#### Personal Protection Equipment

**Eye/face protection**
- Wear protective eyewear (goggles, face shield, or safety glasses).

**Skin protection (Hand protection/ Other)**
- Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.

**Respiratory protection**
- Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

**Thermal hazards**
- Not normally required. Use gloves with insulation for thermal protection, when needed.

### Environmental Exposure Controls

None known

## Section 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

- **Appearance**: Aerosol spray
- **Color**: Colorless
- **Odor**: Not available
- **Odor Threshold (ppm)**: Not available
- **pH (Value)**: Not available
- **Melting Point (°C) / Freezing Point (°C)**: Not available
- **Boiling point/boiling range (°C)**: Not available
- **Flash Point (°C)**: -104 (Propane)
- **Evaporation Rate**: Not available
- **Flammability (solid, gas)**: Extremely flammable aerosol.
- **Explosive Limit Ranges**: 2.1% - 9.5% v/v (Propane)
- **Vapor Pressure (Pascal)**: ca. 95 x 10⁴ (Propane)
CLEARCO 444 ADHESIVE SPRAY

Vapor Density (Air=1) ca. 1.56 @ 0°C (Propane)
Density (g/ml) Not available
Solubility (Water) Not available
Solubility (Other) Not available
Partition Coefficient (n-Octanol/water) Not available
Auto Ignition Point (°C) 450 (Propane)
Decomposition Temperature (°C) Not available
Kinematic Viscosity cSt Not available
Explosive properties Not explosive.
Oxidizing properties Not oxidizing.
Other information Not available

SECTION 10: STABILITY AND REACTIVITY
Reactivity Stable under normal conditions.
Chemical stability Stable.
Possibility of hazardous reactions None anticipated.
Conditions to avoid Avoid contact with heat and ignition sources.
Incompatible materials This product should be stored away from sources of strong heat and oxidizing chemicals. Also avoid: acids, bases, reducing agents, peroxides, amines, ammonia, chlorine and halogens.
Hazardous decomposition product(s) Forms carbon oxides under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION
Exposure routes: Inhalation, Skin Contact, Eye Contact
Information on toxicological effects
Heptane, branched, cyclic and linear (CAS# 426260-76-6) - By analogy with similar materials:
Acute toxicity Oral: LD50 >5 g/kg-bw
Dermal: LD50 >2 g/kg-bw
Inhalation: LC50 = 65 - 103 mg/L (Vapor), 4-hr. rat
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
Irritation/Corrosivity Causes skin irritation. Repeated exposure may cause skin dryness or cracking. May cause eye irritation.
Sensitization It is not a skin sensitizer.
Repeated dose toxicity NOAEC: 12350 mg/m3 (2 yr, inhal., rat, Systemic effects)
LOAEC: 1650 mg/m3 (2 hr, inhal., rat, CNS effects)
May cause drowsiness or dizziness.
Carcinogenicity No data. It is unlikely to present a carcinogenic hazard to man.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

Mutagenicity There is no evidence of mutagenic potential.
Reproductive toxicity Not available
Acetone (CAS No. 67-64-1):
# CLEARCO 444 ADHESIVE SPRAY

## Acute toxicity
- Oral LD50 = 5800 mg/kg (rat)
- Dermal LD50 >15800 mg/kg (rabbit)
- Inhalation LC50 76 mg/L (4 hour(s)) (rat) - Vapours may cause drowsiness and dizziness.

## Irritation / Corrosivity
Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.

## Sensitisation
It is not a skin sensitiser.

## Repeated dose toxicity
- Oral NOAEL = 900 mg/kg/day (rat) (90-days)
- Inhalation NOAEL ≥ 19,000 ppm (rat)

## Carcinogenicity
It is unlikely to present a carcinogenic hazard to man.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

## Mutagenicity
Negative

## Toxicity for reproduction
Negative

### Propane (CAS# 74-98-6):
- **Acute toxicity**
  - Inhalation: LC50 = 1237 mg/L (2-hr, mouse, gas)
- **Irritation/Corrosivity**
  - No evidence of irritant effects from normal handling and use.
- **Sensitisation**
  - It is not a skin sensitiser.
- **Repeated dose toxicity**
  - NOAEC: >19678 mg/m3 (28-day, rat, Systemic effects)
  - LOAEC: 21641 mg/m3 (28-day, rat, effects: Body weight)

## Carcinogenicity
No data. It is unlikely to present a carcinogenic hazard to man.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

## Mutagenicity
There is no evidence of mutagenic potential.

## Reproductive toxicity
None anticipated

### Section 12: Ecological Information

#### Ecotoxicity

**Heptane, branched, cyclic and linear (CAS# 426260-76-6) - By analogy with similar materials:**
- **Short term**
  - LL50 (96 hour): >13.4 mg/L (Oncorhynchus mykiss)
  - EL50 (48 hour): 3 mg/l (Daphnia magna, mobility)
  - EC50 (96 hour): 13 mg/l (Pseudokirchneriella subcapitata)
- **Long Term**
  - NOELR (28 days) 1.5 mg/l (Fish) QSAR
  - LOEC (21 days): 0.32 mg/l (Daphnia magna)
  - NOEL (96 hour) 6.3 mg/l (Algae)

**Acetone (CAS No. 67-64-1):**
- **Short term**
  - LC50 (96 hour): 5,540 mg/l (Rainbow Trout (Oncorhynchus mykiss))
  - LC50 (96 hour): 8,300 mg/l (Bluegill Sunfish (Lepomis macrochirus))
  - LC50 (48 hour(s)): 12,600 – 12,700 mg/l (Daphnia magna)
  - EC50 (14 d): 3,020 mg/l (Algae (Chlorella pyrenoidosa))
  - EC50 (15 min): 14,500 mg/l (Bacteria (Photobacterium phosphoreum))
- **Long Term**
  - Not available.

**Propane (CAS# 74-98-6):**
CLEARCO 444 ADHESIVE SPRAY

Short term (estimate)

LC50 (96 hour): 27.98 mg/L (fish)
LC50 (48 hour): 14.22 mg/L (crustacea)
EC50 (96 hour): 7.71 mg/L (algae)

Long Term

No data.

Persistence and degradability
Not available.

Bioaccumulative potential
Not available.

Mobility in soil
Not available.

Results of PBT and vPvB assessment
Not available.

Other adverse effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>U.S. DOT</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>1950</td>
<td>1950</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Aerosols, flammable</td>
<td>Aerosols, flammable</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.1</td>
<td>2.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None assigned</td>
<td>None assigned</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None assigned</td>
<td>None assigned</td>
</tr>
</tbody>
</table>

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>RQ (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>~27</td>
<td>5000</td>
</tr>
</tbody>
</table>

SARA 311/312 - Hazard Categories:
- ☒ Fire
- ☒ Sudden Release
- ☐ Reactivity
- ☒ Immediate (acute)
- ☐ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>TPQ (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>
California Proposition 65 List:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Type of Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.
Date of preparation: April 26, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2/ SECTION 3:

Hazard Statement(s)
- H220: Extremely flammable gas.
- H225: Highly flammable liquid and vapor.
- H280: Contains gas under pressure; may explode if heated.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H401: Toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

Training advice: None.

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