



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation:** Cleaner, AZ 6835

**Product Number:** R2140000

**Other Identifying Product Numbers:** R2140000-1C1

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

**Company:** Ricca Chemical Company

**Address:** 448 West Fork Drive

Arlington, TX 76012 USA

**Telephone:** 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA)

800-424-9300

CHEMTREC (International)

1+ 703-527-3887

# Safety Data Sheet

## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

| Hazard Class   | Category   | Hazard Statements: | Precautionary Statements:  |
|--|------------|--------------------|--|
| Skin Corrosion / Irritation  | Category 2 | H315               | P264, P280, P302+P352, P321, P332+P313, P362   |
| Eye Damage / Irritation  | Category 2 | H319               | P264, P280, P305+P351+P338, P337+P313  |
| Reproductive Toxicity  | Category 1 | H360               | P201, P202, P280, P308+P313, P405, P501  |
| Specific Target Organs/Systemic Toxicity Following Single Exposure | Category 2 | H371               | P260, P264, P270, P308+P311, P405, P501  |
| Aspiration Hazard  | Category 1 | H304               | P301+P310, P331, P405, P501  |
| Flammable Liquids  | Category 2 | H225               | P210, P233, P240, P241, P242, P243, P280, P303+P361+P353, P370+P378, P403+P235, P501 |
| Hazardous to the Aquatic Environment (Acute)                       | Category 1 | H400               | P273, P391, P501   |
| Hazardous to the Aquatic Environment (Chronic)                     | Category 1 | H410               | P273, P391, P501   |

### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

| Hazard Number | Hazard Statement                                      |
|---------------|---|
| H225          | Highly flammable liquid and vapor.                    |
| H304          | May be fatal if swallowed and enters airways.         |
| H315          | Causes skin irritation.                               |
| H319          | Causes serious eye irritation.                        |
| H360          | May damage fertility or the unborn child.             |
| H371          | May cause damage to organs.                           |
| H400          | Very toxic to aquatic life.                           |
| H410          | Very toxic to aquatic life with long lasting effects. |

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**Precautionary Statements:**

| Precautionary Number | Precautionary Statement  |
|----------------------|--|
| P201                 | Obtain special instructions before use.  |
| P202                 | Do not handle until all safety precautions have been read and understood.  |
| P210                 | Keep away from heat, sparks and open flame. No smoking.  |
| P233                 | Keep container tightly closed.   |
| P240                 | Ground container and receiving equipment.  |
| P241                 | Use explosion-proof equipment.   |
| P242                 | Use only non-sparking tools.   |
| P243                 | Take precautionary measures against static discharge.  |
| P260                 | Do not breathe fumes, mist, vapors, or spray.  |
| P264                 | Wash arms, hands and face thoroughly after handling.   |
| P270                 | Do not eat, drink or smoke when using this product.  |
| P273                 | Avoid release to the environment.  |
| P280                 | Wear protective gloves and eye protection.   |
| P301+P310            | IF SWALLOWED: Immediately call a POISON CENTER or physician.   |
| P302+P352            | IF ON SKIN: Wash with plenty of soap and water.  |
| P303+P361+P353       | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.                                     |
| P305+P351+P338       | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P311            | IF exposed or concerned: Call a POISON CENTER or physician.  |
| P308+P313            | IF exposed or concerned: Get medical attention.  |
| P321                 | Specific treatment (Wash areas of contact with water).   |
| P331                 | Do NOT induce vomiting.  |
| P332+P313            | If skin irritation occurs: Get medical attention.  |
| P337+P313            | If eye irritation persists: Get medical attention.   |
| P362                 | Take off contaminated clothing and wash it before reuse.   |
| P370+P378            | In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.   |
| P391                 | Collect spillage.  |
| P403+P235            | Store in a well-ventilated place. Keep cool.   |
| P405                 | Store locked up.   |
| P501                 | Dispose of contents in accordance with local, state, federal and international regulations.                                      |

**2.4. Hazards not Otherwise Classified or Covered by GHS**

Data not available.

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## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Substance or Mixture

| Chemical Name     | Formula                             | Molecular Weight | CAS Number | Weight% |
|-------------------|-------------------------------------|------------------|------------|---------|
| n-Heptane         | C <sub>7</sub> H <sub>16</sub>      | 100.20 g/mol     | 142-82-5   | 66.61   |
| Ethyl Alcohol     | CH <sub>3</sub> CH <sub>2</sub> OH  | 46.06 g/mol      | 64-17-5    | 30.21   |
| Isopropyl Alcohol | CH <sub>3</sub> CHOHCH <sub>3</sub> | 60.09 g/mol      | 67-63-0    | 1.67    |
| Methyl Alcohol    | CH <sub>3</sub> OH                  | 32.04 g/mol      | 67-56-1    | 1.51    |

## SECTION 4: First-Aid Measures

### 4.1. General First Aid Information

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Results in drying and cracking which can lead to secondary infections and dermatitis.

**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or physician. Aspiration hazard. Do not induce vomiting, vomiting may occur spontaneously. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician.

### 4.2. Most Important Symptoms and Effects, Acute and Delayed

May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs. DANGER! Extremely flammable liquid. Harmful if swallowed. Aspiration hazard. Primarily toxic by ingestion. If ingested, give large quantity of water. Vomiting may occur spontaneously. Do not induce. Call a physician. Contact may cause dryness and cracking of the skin. May cause irritation to the eyes. Wash areas of contact with plenty of water. May cause irritation of the respiratory system. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: Results in drying and cracking which can lead to secondary infections and dermatitis.

### 4.3. Medical Attention or Special Treatment Needed

Specific treatment (Wash areas of contact with water). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Aspiration hazard. Do not induce vomiting, vomiting may occur spontaneously. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician.

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Foam, dry chemical, carbon dioxide Water may be ineffective because it may not cool the material below its flash point.

### 5.2. Specific Hazards Arising from the Substance or Mixture

Highly flammable liquid and vapor. Extremely flammable liquid and vapor. Contact with strong oxidizers may cause fire. Vapor may cause flash fire. Sensitive to static discharge. Vapors can flow along surfaces to distant ignition source and flashback. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire. Explosion hazard when exposed to heat, flame or oxidizers.

### 5.3. Special Protective Equipment for Firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal in an approved waste disposal facility. Ventilate area of spill. Have extinguishing agent available in case of fire. Use non-sparking tools and equipment. Dispose of in accordance with local regulations.

## SECTION 7: Handling and Storage

### 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in secure, flammable storage area away from all sources of ignition. Empty containers may be hazardous since they retain product residues.

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### SECTION 8: Exposure Controls / Personal Protection

#### 8.1 Control Parameters

| Chemical Name           | Limit Type | Country | Exposure Limit   | Information Source   |
|-------------------------|------------|---------|--|--|
| n-Heptane (142-82-5)    | TLV-STEL   | USA     | 500 ppm STEL (listed under Heptane, all isomers)                           | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| n-Heptane (142-82-5)    | TLV-TWA    | USA     | 400 ppm TWA (listed under Heptane, all isomers)                            | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| n-Heptane (142-82-5)    | TWA        | USA     | 500 ppm TWA; 2000 mg/m <sup>3</sup> TWA                                    | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| n-Heptane (142-82-5)    | TLV-STEL   | USA     | "500 ppm STEL (listed under Heptane, all isomers)" As n-Heptane [142-82-5] | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| n-Heptane (142-82-5)    | TLV-TWA    | USA     | "400 ppm TWA (listed under Heptane, all isomers)" As n-Heptane [142-82-5]  | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| n-Heptane (142-82-5)    | TWA        | USA     | "500 ppm TWA; 2000 mg/m <sup>3</sup> TWA" As Heptane [142-82-5]            | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| n-Heptane (142-82-5)    | TWA        | USA     | "500 ppm TWA; 2000 mg/m <sup>3</sup> TWA" As Heptane [142-82-5]            | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| n-Heptane (142-82-5)    | TLV-STEL   | USA     | "500 ppm STEL (listed under Heptane, all isomers)" As n-Heptane [142-82-5] | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| n-Heptane (142-82-5)    | TLV-TWA    | USA     | "400 ppm TWA (listed under Heptane, all isomers)" As n-Heptane [142-82-5]  | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| n-Heptane (142-82-5)    | TLV-TWA    | USA     | 400 ppm TWA  | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| n-Heptane (142-82-5)    | TLV-STEL   | USA     | 500 ppm STEL   | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Ethyl Alcohol (64-17-5) | TWA        | USA     | "1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA" As Ethyl alcohol [64-17-5]      | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Ethyl Alcohol (64-17-5) | TLV-STEL   | USA     | "1000 ppm STEL" As Ethanol [64-17-5]                                       | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Ethyl Alcohol (64-17-5) | TWA        | USA     | 1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA                                   | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |

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|                          |          |     |   |  |
|--------------------------|----------|-----|---|--|
| Ethyl Alcohol (64-17-5)  | TLV-STEL | USA | 1000 ppm STEL   | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Ethyl Alcohol (64-17-5)  | TLV-STEL | USA | "1000 ppm STEL" As Ethanol [64-17-5]                                  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Ethyl Alcohol (64-17-5)  | TWA      | USA | "1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA" As Ethyl alcohol [64-17-5] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Ethyl Alcohol (64-17-5)  | TLV-STEL | USA | "1000 ppm STEL" As Ethanol [64-17-5]                                  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Ethyl Alcohol (64-17-5)  | TWA      | USA | "1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA" As Ethyl alcohol [64-17-5] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Ethyl Alcohol (64-17-5)  | TLV-STEL | USA | "1000 ppm STEL" As Ethanol [64-17-5]                                  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Ethyl Alcohol (64-17-5)  | TWA      | USA | "1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA" As Ethyl alcohol [64-17-5] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Methyl Alcohol (67-56-1) | TLV-STEL | USA | "250 ppm STEL" As Methanol [67-56-1]                                  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Methyl Alcohol (67-56-1) | TWA      | USA | "200 ppm TWA; 260 mg/m <sup>3</sup> TWA" As Methyl alcohol [67-56-1]  | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Methyl Alcohol (67-56-1) | TLV-TWA  | USA | "200 ppm TWA" As Methanol [67-56-1]                                   | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Methyl Alcohol (67-56-1) | TWA      | USA | "200 ppm TWA; 260 mg/m <sup>3</sup> TWA" As Methyl alcohol [67-56-1]  | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Methyl Alcohol (67-56-1) | TLV-TWA  | USA | "200 ppm TWA" As Methanol [67-56-1]                                   | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Methyl Alcohol (67-56-1) | TLV-STEL | USA | "250 ppm STEL" As Methanol [67-56-1]                                  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Methyl Alcohol (67-56-1) | TWA      | USA | 200 ppm TWA; 260 mg/m <sup>3</sup> TWA                                | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Methyl Alcohol (67-56-1) | TLV-TWA  | USA | 200 ppm TWA   | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Methyl Alcohol (67-56-1) | TLV-STEL | USA | 250 ppm STEL  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Methyl Alcohol (67-56-1) | TLV-TWA  | USA | "200 ppm TWA" As Methanol [67-56-1]                                   | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Methyl Alcohol (67-56-1) | TLV-STEL | USA | "250 ppm STEL" As Methanol [67-56-1]                                  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |

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|                             |          |     |   |  |
|-----------------------------|----------|-----|---|--|
| Methyl Alcohol (67-56-1)    | TWA      | USA | "200 ppm TWA; 260 mg/m <sup>3</sup> TWA" As Methyl alcohol [67-56-1]    | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Isopropyl Alcohol (67-63-0) | TWA      | USA | 400 ppm TWA; 980 mg/m <sup>3</sup> TWA                                  | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Isopropyl Alcohol (67-63-0) | TLV-STEL | USA | 400 ppm STEL  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Isopropyl Alcohol (67-63-0) | TLV-TWA  | USA | 200 ppm TWA   | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Isopropyl Alcohol (67-63-0) | TLV-TWA  | USA | "200 ppm TWA" As 2-Propanol [67-63-0]                                   | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Isopropyl Alcohol (67-63-0) | TWA      | USA | "400 ppm TWA; 980 mg/m <sup>3</sup> TWA" As Isopropyl alcohol [67-63-0] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Isopropyl Alcohol (67-63-0) | TLV-STEL | USA | "400 ppm STEL" As 2-Propanol [67-63-0]                                  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Isopropyl Alcohol (67-63-0) | TLV-STEL | USA | "400 ppm STEL" As 2-Propanol [67-63-0]                                  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Isopropyl Alcohol (67-63-0) | TLV-TWA  | USA | "200 ppm TWA" As 2-Propanol [67-63-0]                                   | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Isopropyl Alcohol (67-63-0) | TWA      | USA | "400 ppm TWA; 980 mg/m <sup>3</sup> TWA" As Isopropyl alcohol [67-63-0] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |

### 8.2. Exposure Controls

**Engineering Controls:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

**Respiratory Protection:** If the TLV is exceeded, a half-mask organic vapor respirator may be worn for up to 10 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full facepiece organic vapor respirator may be worn for up to 50 times the exposure limit, or the maximum use concentration specified by the respirator supplier, whichever is lowest.

**Skin Protection:** Wear protective gloves and eye protection. Chemical resistant gloves.

**Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. If the TLV is exceeded, a half-mask organic vapor respirator may be worn for up to 10 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full facepiece organic vapor respirator may be worn for up to 50 times the exposure limit, or the maximum use concentration specified by the respirator supplier, whichever is lowest. Chemical resistant gloves. Safety glasses or goggles.



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## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

**Appearance:** Colorless liquid

**Physical State:** Liquid

**Odor:** Data not available.

**Odor Threshold:** Data not available.

**pH:** Data not available.

**Melting/Freezing Point:** Data not available.

**Initial Boiling Point/Range:** Data not available.

**Flash Point:** -4°C (Heptane), 12.5°C (Reagent Alcohol)

**Evaporation Rate:** Data not available.

**Flammability:** Data not available.

**Flammability/Explosive Limits:** Data not available.

**Vapor Pressure:** Data not available.

**Vapor Density:** Data not available.

**Relative Density:** 0.72

**Solubility:** Data not available.

**Partition Coefficient:** Data not available.

**Auto-Ignition Temperature:** Data not available.

**Decomposition Temperature:** Data not available.

**Viscosity:** Data not available.

**Explosive Properties:** Data not available.

**Oxidizing Properties:** Data not available.

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Strong oxidizers, strong alkalis, strong acids, heat, sparks, open flame. May attack some forms of plastics.

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### 10.4. Hazardous Decomposition Products

Will not occur.

## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

#### Acute Toxicity - Oral Exposure:

Not applicable.

#### Acute Toxicity - Dermal Exposure:

Not applicable.

#### Acute Toxicity - Inhalation Exposure:

Not applicable.

#### Acute Toxicity - Other Information:

LD50, Oral, Rat: (Methanol) 5628 mg/kg, details of toxic effects not reported other than lethal dose value, (Ethanol) 7060 mg/kg, respiration changes noted, (Isopropanol) 5045 mg/kg, behavioral effects noted. LC50, Inhalation, Rat: (n-Heptane) 103 gm/m<sup>3</sup>/4H.

#### Skin Corrosion and Irritation:

Causes skin irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Specific treatment (Wash areas of contact with water). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

#### Serious Eye Damage and Irritation:

Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

#### Respiratory Sensitization:

Not applicable.

#### Skin Sensitization:

Not applicable.

#### Germ Cell Mutagenicity:

Not applicable.

#### Carcinogenicity:

Not applicable.

#### Reproductive Toxicity:

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Specific Target Organ Toxicity from Single Exposure:

May cause damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed or concerned: Call a POISON CENTER or physician. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.



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**Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

**Aspiration Hazard:**

May be fatal if swallowed and enters airways. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Additional Toxicology Information:**

Data not available.

### SECTION 12: Ecological Information

**12.1. Ecotoxicity**

Very toxic to aquatic life. Avoid release to the environment. Collect spillage. Dispose of contents in accordance with local, state, federal and international regulations. Very toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage. Dispose of contents in accordance with local, state, federal and international regulations.

**12.2. Persistence and Degradability**

Data not available.

**12.3. Bioaccumulative Potential**

Data not available.

**12.4. Mobility in Soil**

Data not available.

**12.5. Other Adverse Ecological Effects**

Data not available.

### SECTION 13: Disposal Considerations

**13.1. Waste Treatment Methods**

Data not available.



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### SECTION 14: Transportation Information

#### 14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Sizes: 1 L

UN Number: UN1993

Proper Shipping Name: Flammable liquid, n.o.s. (Heptane, Ethyl Alcohol)

Hazard Class: 3

Packing Group: II

Hazard Label(s):



#### 14.2. Transportation by Air - International Air Transport Association (IATA)

Sizes: 1 L

UN Number: UN1993

Proper Shipping Name: Flammable liquid, n.o.s. (Heptane, Ethyl Alcohol)

Hazard Class: 3

Packing Group: II

Hazard Label(s):



#### 14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 1 L

UN Number: UN1993

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (heptane, ethyl alcohol)

Hazard Class: 3

Packing Group: II

Hazard Label(s):



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## SECTION 15: Regulatory Information

### 15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

### 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Not listed.

### 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Methyl Alcohol (CAS # 67-56-1): "5000 lb final RQ

Methyl Alcohol (CAS # 67-56-1): 2270 kg final RQ

Methyl Alcohol (CAS # 67-56-1): 2270 kg final RQ" As Methanol [67-56-1]

Methyl Alcohol (CAS # 67-56-1): 5000 lb final RQ

### 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Methyl Alcohol (CAS # 67-56-1): "1.0 % de minimis concentration" As Methanol [67-56-1]

Methyl Alcohol (CAS # 67-56-1): 1.0 % de minimis concentration

Isopropyl Alcohol (CAS # 67-63-0): "1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)" As Isopropyl alcohol [67-63-0]

Isopropyl Alcohol (CAS # 67-63-0): 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

### 15.5. Massachusetts Right-to-Know Substance List

n-Heptane (CAS # 142-82-5): "Present" As Heptane [142-82-5]

n-Heptane (CAS # 142-82-5): Present

Ethyl Alcohol (CAS # 64-17-5): "Teratogen" As Ethyl alcohol [64-17-5]

Ethyl Alcohol (CAS # 64-17-5): Teratogen

Methyl Alcohol (CAS # 67-56-1): "Present" As Methanol [67-56-1]

Methyl Alcohol (CAS # 67-56-1): Present

Isopropyl Alcohol (CAS # 67-63-0): "Present" As 2-Propanol [67-63-0]

Isopropyl Alcohol (CAS # 67-63-0): Present

### 15.6. Pennsylvania Right-to-Know Hazardous Substances

n-Heptane (CAS # 142-82-5): "Present" As Heptane [142-82-5]

n-Heptane (CAS # 142-82-5): Present

Ethyl Alcohol (CAS # 64-17-5): "Present" As Denatured alcohols [RR-00113-8]

Ethyl Alcohol (CAS # 64-17-5): "Present" As Ethanol [64-17-5]

Ethyl Alcohol (CAS # 64-17-5): Present

Methyl Alcohol (CAS # 67-56-1): "Environmental hazard" As Methanol [67-56-1]

Methyl Alcohol (CAS # 67-56-1): "Present" As Denatured alcohols [RR-00113-8]

Methyl Alcohol (CAS # 67-56-1): Environmental hazard

Isopropyl Alcohol (CAS # 67-63-0): "Environmental hazard" As 2-Propanol [67-63-0]

Isopropyl Alcohol (CAS # 67-63-0): "Special hazardous substance" As Isopropyl alcohol manufacture (strong-acid process) [RR-00068-0]

Isopropyl Alcohol (CAS # 67-63-0): Environmental hazard

Isopropyl Alcohol (CAS # 67-63-0): Special hazardous substance

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### 15.7. New Jersey Worker and Community Right-to-Know Components

n-Heptane (CAS # 142-82-5): "flammable - third degree" As n-Heptane [142-82-5]  
n-Heptane (CAS # 142-82-5): "sn 1339" As n-Heptane [142-82-5]  
n-Heptane (CAS # 142-82-5): flammable - third degree  
n-Heptane (CAS # 142-82-5): sn 1339  
Ethyl Alcohol (CAS # 64-17-5): "carcinogen"  
Ethyl Alcohol (CAS # 64-17-5): "sn 0844" As Ethyl alcohol [64-17-5]  
Ethyl Alcohol (CAS # 64-17-5): carcinogen  
Ethyl Alcohol (CAS # 64-17-5): flammable - third degree  
Ethyl Alcohol (CAS # 64-17-5): mutagen  
Ethyl Alcohol (CAS # 64-17-5): sn 0844  
Ethyl Alcohol (CAS # 64-17-5): teratogen  
Ethyl Alcohol (CAS # 64-17-5): teratogen" As Ethyl alcohol [64-17-5]  
Methyl Alcohol (CAS # 67-56-1): "flammable - third degree"  
Methyl Alcohol (CAS # 67-56-1): "SN 1222 500 lb TPQ" As Methanol [67-56-1]  
Methyl Alcohol (CAS # 67-56-1): "sn 1222" As Methyl alcohol [67-56-1]  
Methyl Alcohol (CAS # 67-56-1): flammable - third degree  
Methyl Alcohol (CAS # 67-56-1): sn 1222  
Methyl Alcohol (CAS # 67-56-1): SN 1222 500 lb TPQ  
Methyl Alcohol (CAS # 67-56-1): teratogen  
Methyl Alcohol (CAS # 67-56-1): teratogen" As Methyl alcohol [67-56-1]  
Isopropyl Alcohol (CAS # 67-63-0): "flammable - third degree" As Isopropyl alcohol [67-63-0]  
Isopropyl Alcohol (CAS # 67-63-0): "SN 1076 500 lb TPQ (manufacturing - strong acid process only)" As Isopropyl alcohol [67-63-0]  
Isopropyl Alcohol (CAS # 67-63-0): "sn 1076" As Isopropyl alcohol [67-63-0]  
Isopropyl Alcohol (CAS # 67-63-0): flammable - third degree  
Isopropyl Alcohol (CAS # 67-63-0): sn 1076  
Isopropyl Alcohol (CAS # 67-63-0): SN 1076 500 lb TPQ (manufacturing - strong acid process only)

### 15.8. California Proposition 65

Ethyl Alcohol (CAS # 64-17-5): "carcinogen, 7/1/1988 (when associated with alcohol abuse)"  
Ethyl Alcohol (CAS # 64-17-5): "developmental toxicity, 10/1/1987 (listed under Ethyl alcohol in alcoholic beverages)" As Alcoholic beverages [RR-01961-4]  
Ethyl Alcohol (CAS # 64-17-5): carcinogen, 4/29/2011  
Ethyl Alcohol (CAS # 64-17-5): carcinogen, 4/29/2011" As Alcoholic beverages [RR-01961-4]  
Ethyl Alcohol (CAS # 64-17-5): carcinogen, 7/1/1988 (when associated with alcohol abuse)  
Ethyl Alcohol (CAS # 64-17-5): developmental toxicity, 10/1/1987 (listed under Ethyl alcohol in alcoholic beverages)  
Methyl Alcohol (CAS # 67-56-1): "developmental toxicity, 3/16/2012" As Methanol [67-56-1]  
Methyl Alcohol (CAS # 67-56-1): developmental toxicity, 3/16/2012

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### 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

n-Heptane (CAS # 142-82-5): "Present" As Alkanes, C4-12 [68333-81-3] (DSL)  
n-Heptane (CAS # 142-82-5): "Present" As Heptane (n-) [142-82-5] (DSL)  
n-Heptane (CAS # 142-82-5): Present (DSL)  
Ethyl Alcohol (CAS # 64-17-5): "Present" As Alcohols, C1-3 [68475-56-9] (NDSL)  
Ethyl Alcohol (CAS # 64-17-5): "Present" As Ethyl alcohol [64-17-5] (DSL)  
Ethyl Alcohol (CAS # 64-17-5): Present (DSL)  
Ethyl Alcohol (CAS # 64-17-5): Present (NDSL)  
Methyl Alcohol (CAS # 67-56-1): "Present" As Alcohols, C1-3 [68475-56-9] (NDSL)  
Methyl Alcohol (CAS # 67-56-1): "Present" As Methyl alcohol [67-56-1] (DSL)  
Methyl Alcohol (CAS # 67-56-1): Present (DSL)  
Methyl Alcohol (CAS # 67-56-1): Present (NDSL)  
Isopropyl Alcohol (CAS # 67-63-0): "Present" As Alcohols, C1-3 [68475-56-9] (NDSL)  
Isopropyl Alcohol (CAS # 67-63-0): "Present" As Isopropyl alcohol [67-63-0] (DSL)  
Isopropyl Alcohol (CAS # 67-63-0): Present (DSL)  
Isopropyl Alcohol (CAS # 67-63-0): Present (NDSL)

### 15.10. United States of America Toxic Substances Control Act (TSCA) List

**All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.**

n-Heptane (CAS # 142-82-5): "Present (ACTIVE)" As Alkanes, C4-12 [68333-81-3]  
n-Heptane (CAS # 142-82-5): "Present (ACTIVE)" As Heptane [142-82-5]  
n-Heptane (CAS # 142-82-5): Present (ACTIVE)  
n-Heptane (CAS # 142-82-5): Present [T] (ACTIVE)  
Ethyl Alcohol (CAS # 64-17-5): "Present (ACTIVE)" As Ethanol [64-17-5]  
Ethyl Alcohol (CAS # 64-17-5): Present (ACTIVE)  
Methyl Alcohol (CAS # 67-56-1): "Present (ACTIVE)" As Methanol [67-56-1]  
Methyl Alcohol (CAS # 67-56-1): Present (ACTIVE)  
Isopropyl Alcohol (CAS # 67-63-0): "Present (ACTIVE)" As 2-Propanol [67-63-0]  
Isopropyl Alcohol (CAS # 67-63-0): Present (ACTIVE)

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### 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

n-Heptane (CAS # 142-82-5):  
"300-230-4" As Hydrocarbons, C7 [93924-37-9]  
n-Heptane (CAS # 142-82-5): "205-563-8" As Heptane [142-82-5]  
n-Heptane (CAS # 142-82-5): "269-792-5" As Alkanes, C4-12 [68333-81-3]  
n-Heptane (CAS # 142-82-5): 205-563-8  
n-Heptane (CAS # 142-82-5): 271-960-8  
n-Heptane (CAS # 142-82-5): 300-230-4  
n-Heptane (CAS # 142-82-5): 309-852-0  
Ethyl Alcohol (CAS # 64-17-5): "200-578-6" As Ethanol [64-17-5]  
Ethyl Alcohol (CAS # 64-17-5): 200-578-6  
Ethyl Alcohol (CAS # 64-17-5): 270-649-4  
Methyl Alcohol (CAS # 67-56-1): "200-659-6" As Methanol [67-56-1]  
Methyl Alcohol (CAS # 67-56-1): 200-659-6  
Methyl Alcohol (CAS # 67-56-1): 270-649-4  
Isopropyl Alcohol (CAS # 67-63-0): "200-661-7" As Propan-2-ol [67-63-0]  
Isopropyl Alcohol (CAS # 67-63-0): 200-661-7  
Isopropyl Alcohol (CAS # 67-63-0): 270-649-4



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## SECTION 16: Other Information

### 16.1. Full Text of Hazard Statements and Precautionary Statements

Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs. Very toxic to aquatic life with long lasting effects.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves and eye protection.

IF SWALLOWED: Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Do NOT induce vomiting. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Collect spillage.

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

Dispose of contents in accordance with local, state, federal and international regulations.

### 16.2. Miscellaneous Hazard Classes

**Canadian Carcinogenicity Hazard Class:** Not Applicable.

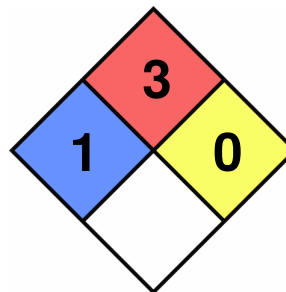
**Physical Hazards Not Otherwise Classified (PHNOC):** Not Applicable.

**Health Hazards Not Otherwise Classified (HHNOC):** Not Applicable.

**Biohazardous Infectious Materials Hazard Class:** Not Applicable.

### 16.3. National Fire Protection Association (NFPA) Rating

**Health:** 1  
**Flammability:** 3  
**Reactivity:** 0  
**Special Hazard:**





## Safety Data Sheet

### 16.4. Document Revision

**Last Revision Date:** 2025-04-06

### DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.