

Part Number: 10016

## 1. PRODUCT AND COMPANY IDENTIFICATION

**1.1 Product Name:** Acetone-Alcohol 1:1  
**Part Number:** 10016  
**CAS-No.:** Not applicable  
**SDS Number:** 2070

**1.2 Recommended Use:** Laboratory Chemicals

**1.3 Company:** Newcomer Supply  
 2505 Parview Road  
 Middleton, WI 53562 USA

**Telephone:** 1-800-383-7799

**Fax:** 1-608-831-0866

**Website:** [www.newcomersupply.com](http://www.newcomersupply.com)

**Email:** [newly@newcomersupply.com](mailto:newly@newcomersupply.com)

24 HOUR EMERGENCY CONTACT  
 CALL CHEMTREC: 1-800-424-9300  
 Contact CHEMTREC only in the event of  
 an emergency involving a chemical spill,  
 leak, fire, exposure or other accident.

## 2. HAZARD(S) IDENTIFICATION

### 2.1 Classification of the substance or mixture

GHS Classification, (in accordance with 29 CFR1910.1200)

Flammable liquid, Category 2

Serious Eye Damage/Eye irritation, Category 2A

Acute toxicity (oral), Category 4

Acute toxicity (dermal), Category 4

Acute toxicity (inhalation), Category 4

Carcinogenicity, Category 2

Specific Target Organ Toxicity – Single exposure, Category 3

### 2.2 GHS Label elements

**Signal Word** DANGER

**Pictogram**



**Hazard Statement(s):**

- Highly flammable liquid and vapour
- Causes serious eye irritation
- Harmful if swallowed
- Harmful in contact with skin
- Harmful if inhaled
- Suspected of causing cancer
- May cause respiratory irritation
- May cause drowsiness or dizziness

**Precautionary Statement(s):**

**Prevention:**

- Keep away from heat/sparks/open flames/hot surfaces – No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof fume hood/electrical/ventilating/light equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust/fume/gas/mist/vapours/spray.

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

**Response:**

- In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
- 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 advice/attention.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.
- Specific treatment: see first aid measures in section 4.
- IF exposed or concerned: Get medical advice/attention.

**Storage:**

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

**Disposal:**

- Dispose of contents/ container to an approved waste disposal plant.

- 2.3 Description of any hazards not otherwise classified**                      None
- 2.4 >1% of mixture with unknown acute toxicity**                                      None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**
**3.2 Mixture**
**Hazardous Components**

| Component |                        | Concentration |
|-----------|------------------------|---------------|
| Name      | Ethyl Alcohol          |               |
| CAS-No.   | 64-17-5                | 43-44%        |
| Name      | Isopropyl Alcohol      |               |
| CAS-No.   | 67-63-0                | 7-8%          |
| Name      | Methyl Alcohol         |               |
| CAS-No.   | 67-56-1                | 2-3%          |
| Name      | Methyl Isobutyl Ketone |               |
| CAS-No.   | 108-10-1               | <1%           |
| Name      | Acetone                |               |
| CAS-No.   | 67-64-1                | 50%           |

**4. FIRST-AID MEASURES**
**4.1 Description of necessary measures**
**Inhalation (breathing)**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

**Skin Contact**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention.

**Eye Contact**

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 advice/attention.

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**Ingestion (swallowed)**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**4.2 Most important symptoms and or effects, acute and delayed**

The most important symptoms/effects are presented in Section 2 and or Section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**5. FIRE-FIGHTING MEASURES**
**5.1 Suitable extinguishing media**

Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

**5.2 Specific hazards arising from the substance or mixture**

No data available

**5.3 Protective equipment and precautions for fire-fighters**

Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

**NFPA Rating**

|           |           |            |
|-----------|-----------|------------|
| Health    | Fire      | Reactivity |
| hazard: 2 | hazard: 3 | hazard: 0  |

**6. ACCIDENTAL RELEASE MEASURES**
**6.1 Personal precautions, protective equipment and emergency procedures**

Apply personal protective equipment (see Section 8.2). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area. Keep product away from heat, flame, ignition sources, and reactive materials. Avoid accumulation of vapor to form explosive concentration. Pay particular attention to low areas where vapor accumulates more easily.

**6.2 Methods and material for containment and cleaning up**

Apply personal protective equipment (see Section 8.2). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations. Eliminate sources of ignition.

**7. HANDLING AND STORAGE**
**7.1 Precautions for safe handling**

Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control Parameters**

Components with limit values that require monitoring at the workplace

| Component     | CAS-No. | Regulatory | Value | Parameters                         |
|---------------|---------|------------|-------|------------------------------------|
| Ethyl Alcohol | 64-17-5 | OSHA PEL   | TWA   | 1000 ppm (1900 mg/m <sup>3</sup> ) |

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|  |  |           |     |                                    |
|--|--|-----------|-----|------------------------------------|
|  |  | ACGIH TLV | TWA | 1000 ppm (1880 mg/m <sup>3</sup> ) |
|  |  | NIOSH REL | TWA | 1000 ppm (1900 mg/m <sup>3</sup> ) |

| Component      | CAS-No. | Regulatory | Value | Parameters                         |
|----------------|---------|------------|-------|------------------------------------|
| Methyl Alcohol | 67-56-1 | OSHA PEL   | TWA   | 200 ppm (980 mg/m <sup>3</sup> )   |
|                |         | ACGIH TLV  | STEL  | 200 ppm (1,230 mg/m <sup>3</sup> ) |
|                |         | ACGIH TLV  | STEL  | 50 ppm (1,230 mg/m <sup>3</sup> )  |
|                |         | NIOSH REL  | TWA   | 200 ppm (980 mg/m <sup>3</sup> )   |
|                |         | NIOSH REL  | STEL  | 250 ppm (980 mg/m <sup>3</sup> )   |

| Component         | CAS-No. | Regulatory | Value | Parameters                         |
|-------------------|---------|------------|-------|------------------------------------|
| Isopropyl Alcohol | 67-63-0 | OSHA PEL   | TWA   | 400 ppm (980 mg/m <sup>3</sup> )   |
|                   |         | ACGIH TLV  | TWA   | 400 ppm (983 mg/m <sup>3</sup> )   |
|                   |         | ACGIH TLV  | STEL  | 500 ppm (1,230 mg/m <sup>3</sup> ) |
|                   |         | NIOSH REL  | TWA   | 400 ppm (980 mg/m <sup>3</sup> )   |
|                   |         | NIOSH REL  | STEL  | 500 ppm (980 mg/m <sup>3</sup> )   |

| Component              | CAS-No.  | Regulatory | Value | Parameters                       |
|------------------------|----------|------------|-------|----------------------------------|
| Methyl Isobutyl Ketone | 108-10-1 | OSHA PEL   | TWA   | 100 ppm (410 mg/m <sup>3</sup> ) |
|                        |          | ACGIH TLV  | TWA   | 50 ppm (205 mg/m <sup>3</sup> )  |
|                        |          | ACGIH TLV  | STEL  | 75 ppm (307 mg/m <sup>3</sup> )  |
|                        |          | NIOSH REL  | TWA   | 50 ppm (205 mg/m <sup>3</sup> )  |
|                        |          | NIOSH REL  | STEL  | 75 ppm (300 mg/m <sup>3</sup> )  |

| Component | CAS-No. | Regulatory | Value | Parameters                           |
|-----------|---------|------------|-------|--------------------------------------|
| Acetone   | 67-64-1 | OSHA PEL   | TWA   | 1,000 ppm (2,400 mg/m <sup>3</sup> ) |
|           |         | ACGIH TLV  | TWA   | 750 ppm (1,780 mg/m <sup>3</sup> )   |
|           |         | ACGIH TLV  | STEL  | 1,000 ppm (2,380 mg/m <sup>3</sup> ) |
|           |         | NIOSH REL  | TWA   | 250 ppm (590 mg/m <sup>3</sup> )     |

## 8.2 Exposure Controls

### Appropriate engineering controls

Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

## 8.3 Personal Protective Equipment

### Eye/Face protection

Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

### Skin Protection

Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

### Body Protection

No data available

### Respiratory Protection

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Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).

In case of emergency, entry into or escape from unknown concentrations select the highest level approved respiratory protection available.

**Other Information**

None

**9. PHYSICAL AND CHEMICAL PROPERTIES**
**9.1 Information on basic physical and chemical properties**

|   |  |
|---|--|
| Physical state                          | Colorless liquid                             |
| Odor                                    | Alcoholic odor                               |
| Odor threshold                          | No data available                            |
| pH                                      | No data available                            |
| Melting point/freezing point            | No data available                            |
| Initial boiling point and boiling range | No data available                            |
| Flash point                             | No data available                            |
| Evaporation rate                        | No data available                            |
| Flammability (solid, gas)               | No data available                            |
| Upper flammability or explosive limits  | No data available                            |
| Lower flammability or explosive limits  | No data available                            |
| Vapor pressure                          | No data available                            |
| Vapor density                           | No data available                            |
| Relative density                        | No data available                            |
| Solubility(ies)                         | Miscible with water and many organic liquids |
| Partition coefficient: n-octanol/water  | No data available                            |
| Auto-ignition temperature               | No data available                            |
| Decomposition temperature               | No data available                            |
| Viscosity                               | No data available                            |

**10. STABILITY AND REACTIVITY**
**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable in a closed container within label-specified storage temperature and expiration date.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

Heat, sparks, open flame, and ignition sources.

**10.5 Incompatible materials**

Strong oxidizers, potassium dioxide, bromine pentafluoride, acetyl bromide, acetyl chloride, platinum, sodium concentrated sulfuric acid, potassium and hydrogen peroxides, platinum black, calcium hypochlorite, silver oxide, ammonia, nitric acid, mercuric nitrate, silver nitrate, magnesium perchlorate, isocyanates, mineral acids, and chloroform. Permanganates, chlorates, nitrates, chlorine, bromine, and fluorine. Acetic Acid and nitric acid.

**10.6 Hazardous decomposition products**

No data available

**11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects****Inhalation exposure**

Inhaling ethyl alcohol, methyl alcohol, isopropyl alcohol, and acetone can irritate the nose, throat and lungs causing coughing and/or shortness of breath. Breathing methyl isobutyl ketone can irritate the nose and throat causing coughing and wheezing. Breathing methyl isobutyl ketone vapor can cause headache, loss of appetite, nausea, vomiting, and diarrhea. Exposure to high concentrations of acetone can cause headache, nausea and vomiting, dizziness, lightheadedness and even passing out. Acetone: Headache, lightheadedness, nasal irritation were noted in workers exposed to concentrations considerably in excess of 1,000 ppm and perhaps as high as 6,500 ppm. Exposure to high concentrations can cause headache, nausea and vomiting, dizziness, lightheadedness and even passing out.

**Oral exposure**

Oral exposure to ethyl alcohol, methyl alcohol, and isopropyl alcohol can cause headache, drowsiness, nausea and vomiting, and unconsciousness. It can also affect concentration and vision. Acetone exposure can irritate the throat.

**Dermal exposure**

Contact with ethyl alcohol can irritate the skin.

**Skin corrosion/irritation**

Prolonged or repeated exposure to ethyl alcohol can cause drying and cracking of the skin with peeling, redness and itching.

**Serious eye damage/irritation**

Contact with ethyl alcohol can irritate and burn the eyes. Acetone has been reported to cause burning sensation in the eyes at vapor concentration of 500 ppm. Reports of irritation in acclimated workers include a range of 1000-1500 ppm.

**Respiratory or skin sensitization**

Exposure to acetone can irritate the nose.

**Germ Cell mutagenicity**

No data available

**Reproductive toxicity**

Repeated oral exposure to ethyl alcohol may cause spontaneous abortions, as well as birth defects and other developmental problems. This condition is referred to as "fetal alcohol syndrome." There is limited evidence that oral exposure to ethyl alcohol may decrease fertility in males.

**Specific target organ toxicity - single exposure**

Exposure to ethyl alcohol and acetone may affect the liver and the nervous system.

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Acute toxicity**

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Ethyl Alcohol:

LD50 rat oral 3450 mg/kg

LD50 mouse oral 7060 mg/kg

LC50 rat inhalation 20000 ppm/10H

LC50 mouse inhalation 20363 ppm/4H

Acetone:

LD50 rat oral 5800 mg/kg

LD50 rabbit oral 5340 mg/kg

LD50 mouse oral 3000 mg/kg

LCLo mouse inhalation 45,455 ppm/1H

**Carcinogenicity**

IARC: Methyl Isobutyl Ketone: Group 2B Possible human carcinogen

NTP: None of the components are listed

OSHA: None of the components are listed

**Additional information**

RTECS: No data available

**12. ECOLOGICAL INFORMATION**
**12.1 Ecotoxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS**
**13.1 Waste disposal methods**
**Contents**

Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

**14. TRANSPORT INFORMATION**
**14.1 DOT (US)**

|                              |                   |
|------------------------------|-------------------|
| <b>UN-Number</b>             | 1090              |
| <b>Proper shipping name</b>  | Acetone           |
| <b>Hazard class</b>          | 3                 |
| <b>Packing group</b>         | II                |
| <b>Environmental hazards</b> | No data available |

**15. REGULATORY INFORMATION**
**15.1** No data available

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**16. OTHER INFORMATION**

Preparation Information

Newcomer Supply Inc.

800-383-7799

[www.newcomersupply.com](http://www.newcomersupply.com)

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