## 1. PRODUCT AND COMPANY IDENTIFICATION

**1.1 Product Name:** **Alcohol, Isopropyl ACS, 100%**
**Part Number:** 12094
**CAS-No.:** 67-63-0
**SDS Number:** 2230

**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
**Email:** 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
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 eye irritation
- 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 breathe dust/fume/gas/mist/vapours/spray
- Use only outdoors or in a well-ventilated area

**Response:**
- In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell

**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

**3.1 Substances**
**Hazardous Components**

| Component | | Concentration |
|---|---|---|
| Name | Isopropyl Alcohol | |
| CAS-No. | 67-63-0 | 99-100% |

**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. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin Contact**
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell.

**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.

**Ingestion (swallowed)**
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**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 hazard: | 1 | Fire hazard: | 3 | Reactivity hazard: | 0 |
|---|---|---|---|---|---|

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Apply personal protective equipment (see Section 8). 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). 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 |
|---|---|---|---|---|
| Isopropyl Alcohol | 67-63-0 | OSHA PEL | TWA | 400 ppm (980 mg/m$^3$) |
| | | ACGIH TLV | TWA | 400 ppm (983 mg/m$^3$) |
| | | ACGIH TLV | STEL | 500 ppm (1,230 mg/m$^3$) |
| | | NIOSH REL | TWA | 400 ppm (980 mg/m$^3$) |
| | | NIOSH REL | STEL | 500 ppm (1,225 mg/m$^3$) |

**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**

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).
Where the potential exists for exposure over 200 ppm: use a NIOSH approved full facepiece respirator with an organic vapor cartridge. Increased protection is obtained from full facepiece powered-air purifying respirators. Leave the area immediately if (1) while wearing a filter or cartridge respirator you can smell, taste, or otherwise detect isopropyl alcohol, (2) while wearing particulate filters abnormal resistance to breathing is experienced, or (3) eye irritation occurs while wearing a full facepiece respirator. Check to make sure the respirator-to-face seal is still good. If it is, replace the filter or cartridge. If the seal is no longer good, you may need a new respirator.
Where the potential for high exposure exists, use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus or an emergency escape air cylinder.
Exposure to 2,000 ppm is immediately dangerous to life and health. If the possibility of exposure above 2,000 ppm exists, use a NIOSH approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder.
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 | Red liquid |
| Odor | Alcoholic odor |
| Odor threshold | No data available |
| pH | No data available |
| Melting point/freezing point | -88°C (-126.4°F) |
| Initial boiling point and boiling range | 82°C (179.6°F) |
| Flash point | 12°C (53.6°F) (TTC) |
| Evaporation rate | 1.7 |
| Flammability (solid, gas) | Liquid is flammable |
| Upper flammability or explosive limits | 12.7% |
| Lower flammability or explosive limits | 2% |
| Vapor pressure | 33 mm Hg at 20°C |
| Vapor density | No data available |
| Relative density | 0.785 |
| Solubility(ies) | Miscible with water |
| 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**
Oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine); strong acids (such as hydrochloric, sulfuric and nitric); acid anhydrides; alkali metals (such as lithium, sodium and potassium); alkaline earth metals (such as beryllium, magnesium and calcium); ethylene oxide; phosgene; crotonaldehyde; and isocyanates.

**10.6 Hazardous decomposition products**
Carbon dioxide and carbon monoxide may be released if product is heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

**Inhalation exposure**
200, 400, or 800 ppm reported mild to moderate irritation of the nose and throat at the two higher concentrations.

**Oral exposure**
Repeated high exposure can cause headache, dizziness, confusion, loss of coordination, unconsciousness and even death. 200, 400, or 800 ppm reported mild to moderate irritation of the throat at the two higher concentrations. The probable lethal oral dose has been reported to be 190 grams.

**Dermal exposure**
Contact can irritate the skin.

**Skin corrosion/irritation**
Prolonged or repeated exposure can cause drying and cracking of the skin with peeling, redness and itching.

**Serious eye damage/irritation**
200, 400, or 800 ppm reported mild to moderate irritation of the eyes at the two higher

**Respiratory or skin sensitization**
Inhaling isopropyl alcohol can irritate the nose, throat and lungs causing coughing and/or shortness of breath.

**Germ cell mutagenicity**
No data available

**Reproductive toxicity**
There is limited evidence that Isopropyl Alcohol may damage the developing fetus in animals.

**Specific target organ toxicity - single exposure**
No data available

**Specific target organ toxicity - repeated exposure**
Isopropyl Alcohol may affect the liver and kidneys.

**Aspiration hazard**
No data available

**Acute toxicity**

LD50 rat oral 5,045 mg/kg
LD50 rabbit oral 6,410 mg/kg
LD50 mouse oral 3,600 mg/kg
LC50 rat inhalation 12,000 ppm/8H

**Carcinogencity**
IARC: None of the components are listed
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)**

| | |
|---|---|
| **UN-Number** | 1219 |
| **Proper shipping name** | Isopropanol |
| **Hazard class** | 3 |
| **Packing group** | II |
| **Environmental hazards** | No data available |

## 15. REGULATORY INFORMATION

**15.1** No data available

## 16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com