

Revised 02/10/2014

## **Isopropyl Alcohol**

## 1. Product and Company Identification

Product Name Isopropyl Alcohol

Synonyms Isopropanol, 2-Propanol, Dimethylcarbinol

MSDS Number D11579

Company Identification Cloverleaf Chemical Company

192 S Locust Street Manteno, IL 60914

Telephone Cloverleaf Chemical Company – 815.932.0060

CHEMTREC - 800.424.9300

NFPA diamond and HMIS ratings for this product may be found in section 16 of this Safety Data Sheet.

#### 2. Hazards Identification

Form Liquid

Color Clear, colorless
Odor Slight alcohol odor

OSHA/HCS Status This material is considered hazardous by the OSHA Hazard Communication Standard (29

CFR 1910.1200): flammable liquid, target organ effect (nerves, liver kidney,

cardiovascular system, gastrointestinal tract), irritant.

GHS Classification Flammable liquids (Category 2)

Skin irritation (Category 3) Eye irritation (Category 2A)

Specific target organ toxicity – single exposure (Category 3), central nervous system

Pictogram

Signal Word Danger

Hazard Statement(s)

H225 Highly flammable liquid and vapor.

H316 Causes mild skin irritation. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapor/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

#### **Potential Acute Health Effects**

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause

drowsiness and dizziness.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Can cause skin irritation.

Isopropyl Alcohol Revised 02/10/2014 Page 1 of 6



Revised 02/10/2014

Eyes Causes eye irritation.

See section 11 for more detailed information on health effects and symptoms

### 3. Composition/Information on Ingredients

**Ingredient Name** WT % **CAS Number** 99.8 Isopropyl Alcohol 67-63-0

### 4. First Aid Measures

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

Skin Contact Wash off with soap and plenty of water. Consult a physician.

Inhalation If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a

physician.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse

mouth with water. Consult a physician.

Protection of First Aid

No action shall be taken involving any personal risk or without suitable training. It may be Personnel

dangerous to the person providing aid to give mouth-to-mouth resuscitation. If it is suspected that dust, vapor, mist, or gas are still present, the rescuer should wear an

appropriate mask or self-contained breathing apparatus.

## Fire-fighting Measures

Flammability of the Product Flammable in the presence of a source of ignition when the temperature is above the flash

point. Keep away from heat/sparks/open flame/hot surface. No smoking.

53 °F (12 °C) - closed cup Flash Point (Method)

Auto Ignition Temperature 750 °F (399 °C)

**Extinguishing Media** 

Suitable Water spray, dry chemical, carbon dioxide, or alcohol resistant foam.

Special Fire-fighting Procedures & Hazards Vapors may ignite and cause flashback. Wear chemical protective clothing and positive pressure self-contained breathing apparatus. Approach upwind to avoid toxic vapors. Container may explode in heat of fire. Do not allow runoff to sewer, it may create fire or

**Unusual Fire & Explosion** 

Hazards

explosion.

#### Accidental Release Measures

Personal Precautions Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure

> adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate

in low areas.

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Spill Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-

brushing. Place in container for disposal according to local regulations.

#### Handling and Storage

Handling Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof

equipment. Keep away from sources of ignition - No Smoking. Take measures to prevent

the build-up of electrostatic charge.

Isopropyl Alcohol Revised 02/10/2014 Page 2 of 6



Revised 02/10/2014

Storage Keep container tightly closed in a dry and well-ventilated place. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

### 8. Exposure Controls/Personal Protection

<u>Ingredient Name</u> <u>ACGIH TLV</u> <u>OSHA PEL</u>

Isopropyl Alcohol 200 ppm - TWA 400 ppm - TWA

replacement.

Hygiene Measures Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately

after handling the product.

Respiratory If airborne concentrations are above the applicable exposure limits, use NIOSH-approved

respiratory protection. If respiratory protection is needed, use only protection authorized in

the U.S. Federal OSHA Standard (29 CFR 1910.134).

Eyes and Face Wear safety glasses with side shields (or goggles) and a face shield.

Skin Wear chemically impervious gloves, made of any waterproof material. The type of

protective equipment must be selected according to the concentration and amount of the

dangerous substance at the specific workplace.

## 9. Physical and Chemical Properties

Appearance Clear, colorless liquid
Odor Slight alcohol odor

pH (1 oz/gal) Not applicable

Water Solubility Infinite
Vapor Density (air = 1) 2.07
Evaporation rate (butyl acetate = 1) 1.7

Boiling Point (°F) 180.5 °F (82.5 °C) Freezing Point (°F) -127.3 °F (-88.5 °C)

Specific Gravity ( $H_20 = 1 @ 70 °F$ ) 0.7854

Vapor Pressure (mm Hg, 20 °C) 44 mm Hg @ 20 °C

Volatile Organic (VOC) Content 100%

### 10. Stability and Reactivity

Stable: X Unstable: Hazardous Polymerization: Occurs: Does Not Occur: X

Conditions to Avoid Excessive heat and ignition sources.

Materials to Avoid Peroxides.

Decomposition Products Acid smoke and irritating fumes. Carbon monoxide or carbon dioxide can evolve.

#### 11. Toxicological Information

Eye May cause eye irritation.

Isopropyl Alcohol Eye irritation – rabbit – 24 hr.



Revised 02/10/2014

Dermal May be harmful if absorbed through skin. Can cause skin irritation.

Isopropyl Alcohol LD50 (rabbit) – 12,800 mg/kg

Mild skin irritation – rabbit

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause

drowsiness and dizziness.

Isopropyl Alcohol LC50 (rat) – 16,000 ppm– 8 hr.

Oral May be harmful if swallowed.

Isopropyl Alcohol LD50 (rat) – 5045 mg/kg

#### **Potential Chronic Health Effects**

Carcinogenicity IARC:

3 – Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol).

No component of this product present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by OSHA or NTP.

Other Adverse Effects May cause drowsiness or dizziness. Central nervous system depression, prolonged or

repeated exposure can cause: nausea, headache, vomiting, and/or narcosis.

Overexposure may cause mild, reversible liver effects.

### 12. Ecological Information

Biodegradability No data available Ecotoxicity Toxicity to fish:

LC50 – Pimephales promelas (fathead minnow) – 9640.00 mg/l – 96 hr.

Toxicity to algae:

EC50 – Desmodesmus subspicatus (green algae) - > 2000.00 mg/l – 72 hr.

Toxicity to aquatic invertebrates:

EC50 – Daphnia magna (water flea) – 5102.00 mg/l – 24 hr.

### 13. Disposal Considerations

Waste Disposal Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra

care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal

service to dispose of this material.

RCRA Product not listed as a hazardous waste.

#### 14. Transportation

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

<u>US DOT 49 CFR 172.101</u> <u>Non-bulk Shipments</u> (Drums/Totes) <u>Bulk Shipments</u> (Tank Trucks/Rail Cars)

Proper Shipping Name Isopropanol Same
Hazard Class 3 Same
Identification Number UN1219 Same
Packing Group II Same



Revised 02/10/2014

Reportable Quantities Not applicable RQ=1000 lbs. (Nitric Acid)

Placards/Labels Flammable Same

## 15. Regulatory Information

CERCLA / SARA A spill or release of this material may trigger the emergency release reporting

requirements under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). **Emergency Reporting** 

State or local reporting requirements may differ from federal requirements. Consult

counsel for further guidance on your responsibilities under these laws.

No components listed

SARA Title III Section 313 The following components are subject to reporting levels established by SARA Title III,

Section 313:

No components listed

Clean Water Act (CWA) The following chemicals are listed under Section 311 as hazardous substances requiring

the submission of a National Pollutant Discharge Elimination System (NPDES) permit Section 311

application to EPA.

No components listed

TSCA - Toxic Substances All components of this product are listed on the Toxic Substances Control Act Inventory or Control Act

are excluded from listing requirements.

RCRA - Resource The requirements of the federal hazardous waste regulations do not apply unless the Conservation and Recovery waste fails to pass any of EPA's four tests for determining hazardous wastes. Note: If this Act

product is altered, it is the responsibility of the user to determine whether the material

meets the criteria for hazardous waste at the time of disposal.

No components listed

State Regulations

RTK Substances: The following components are listed: 2-Propanol (CAS# 67-63-0) Massachusetts

RTK Substances: The following components are listed: 2-Propanol (CAS# 67-63-0) **New Jersey** 

Pennsylvania RTK Substances: The following components are listed: 2-Propanol (CAS# 67-63-0)

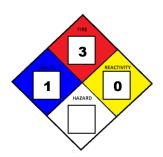
California Proposition 65: This product does not contain any chemicals known to the State of

California to cause cancer, birth defects, or any other reproductive harm.

## 16. Other Information

Date of Issue 2/10/2014

**NFPA** 



Isopropyl Alcohol Revised 02/10/2014 Page 5 of 6



Revised 02/10/2014

#### **HMIS**

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PPE	

Caution: NFPA and HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them.

The customer is responsible for determining the PPE code for this material.

#### Notice to Reader

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Cloverleaf Chemical Company makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining the appropriateness for a particular purpose. Accordingly, Cloverleaf Chemical Company will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied, of merchantability fitness for a particular purpose or any other nature are made hereunder with respect to the information set forth herein or the product to which the information refers.