



## Material Safety Data Sheet

# UNIBAC

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

### 1. Product and Company Identification

<b>Material name</b>	<b>UNIBAC</b>
<b>Patent Number</b>	Not available
<b>Version No.</b>	5
<b>CAS #</b>	Mixture
<b>Product use</b>	NON-EMULSIFIER
<b>Manufacturer information</b>	Clearwater International L.L.C. 100 Leetsdale Industrial Drive Leetsdale, PA 15056 US CHEMTREC 1-800-424-9300/703-527-3887
<b>Emergency</b>	CHEMTREC 1-800-424-9300/703-527-3887
<b>Supplier information</b>	Universal Well Services, Inc. 18360 Technology Drive Meadville, PA 16335 US

### 2. Hazards Identification

<b>Emergency overview</b>	Will be easily ignited by heat, spark or flames.
<b>OSHA regulatory status</b>	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
<b>Potential health effects</b>	
<b>Eyes</b>	Eye contact may result in corneal injury. Contact may irritate or burn eyes. Do not get this material in contact with eyes.
<b>Skin</b>	Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Do not get this material in contact with skin.
<b>Inhalation</b>	Prolonged inhalation may be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Ingestion</b>	May cause delayed lung damage. Do not ingest. Components of the product may be absorbed into the body by ingestion.
<b>Target organs</b>	Central nervous system. Eyes. Gastrointestinal tract. Lungs. Respiratory system. Skin.
<b>Chronic effects</b>	Shortness of breath. Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage. Prolonged skin contact may defat the skin and produce dermatitis.
<b>Signs and symptoms</b>	Discomfort in the chest. Shortness of breath. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Cough. Conjunctivitis. Defatting of the skin. Rash. Irritation.
<b>Potential environmental effects</b>	May cause long-term adverse effects in the environment.





### 3. Composition / Information on Ingredients

Components	CAS #	Percent
Isopropyl alcohol	67-63-0	30 - 60
Methanol	67-56-1	10 - 30

### 4. First Aid Measures

#### First aid procedures

<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
<b>Skin contact</b>	Wash off with warm water and soap. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

#### Notes to physician

Symptoms may be delayed.

#### General advice

Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire Fighting Measures

#### Flammable properties

Flammable by OSHA criteria. Containers may explode when heated. Runoff to sewer may cause fire or explosion hazard.

#### Extinguishing media

**Suitable extinguishing media** Water. Foam. Alcohol foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

#### Protection of firefighters

**Protective equipment and precautions for firefighters** In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

### 6. Accidental Release Measures

#### Personal precautions

Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.



**Methods for containment**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

## 7. Handling and Storage

**Handling**

Do not handle or store near an open flame, heat or other sources of ignition. Use only with adequate ventilation. Avoid prolonged exposure.

**Storage**

Refrigeration recommended. Keep tightly closed in a dry, cool and well-ventilated place. Store in accordance with local/regional/national/international regulation.

## 8. Exposure Controls / Personal Protection

**Exposure limits****ACGIH****Components**

Components	CAS #	TWA	STEL	Ceiling
Isopropyl alcohol	67-63-0	200 ppm	400 ppm	Not established
Methanol	67-56-1	200 ppm	250 ppm	Not established

**OSHA****Components**

Components	CAS #	TWA	STEL	Ceiling
Isopropyl alcohol	67-63-0	400 ppm	Not established	Not established
Methanol	67-56-1	200 ppm	Not established	Not established

**Engineering controls**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Personal protective equipment****Eye / face protection**

Do not get this material in contact with eyes. Wear chemical goggles.

**Skin protection**

Do not get this material in contact with skin. Wear appropriate chemical resistant gloves. Impervious gloves.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General hygiene considerations**

Do not get this material in contact with eyes. Do not get this material in contact with skin. When using do not eat or drink. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.





## 9. Physical & Chemical Properties

<b>Appearance</b>	Liquid.
<b>Color</b>	clear, yellow
<b>Odor</b>	alcoholic
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>pH</b>	6 - 8
<b>Melting point</b>	-63.4 °F (-52.57 °C) estimated
<b>Freezing point</b>	Not available
<b>Boiling point</b>	188.6 °F (87.43 °C) estimated
<b>Flash point</b>	80 °F (26.7 °C)
<b>Evaporation rate</b>	Not available
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	0.88 - 0.91
<b>Relative density</b>	0.8949 g/cm <sup>3</sup> estimated
<b>Solubility (water)</b>	Not available
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	779 °F (415 °C) estimated
<b>Decomposition temperature</b>	Not available
<b>VOC</b>	43.48 % estimated

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Risk of ignition. Stable at normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

<b>Acute effects</b>	Acute LD50: 10453 mg/kg estimated, Rat, Oral Acute LD50: 30907 mg/kg estimated, Rat, Dermal Acute LC50: 172 mg/l/4h estimated, Rat, Inhalation
----------------------	--



**Component analysis - LD50****Toxicology Data - Selected LD50s and LC50s**

Isopropyl alcohol	67-63-0	Inhalation LC50 Rat: 72.6 mg/L/4H; Oral LD50 Rat:4396 mg/kg; Dermal LD50 Rat:12800 mg/kg; Dermal LD50 Rabbit:12870 mg/kg
Methanol	67-56-1	Inhalation LC50 Rat: 83.2 mg/L/4H; Inhalation LC50 Rat:64000 ppm/4H; Oral LD50 Rat:5628 mg/kg; Dermal LD50 Rabbit:15800 mg/kg

**Sensitization**

Not expected to be hazardous by OSHA criteria.

**Local effects**

Contact may irritate or burn eyes. Components of the product may be absorbed into the body through the skin.

**Chronic effects**

Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.

**Carcinogenicity**

Not expected to be hazardous by OSHA criteria.

**ACGIH - Threshold Limits Values - Carcinogens**

Isopropyl alcohol	67-63-0	A4 - Not Classifiable as a Human Carcinogen
-------------------	---------	---

**Neurological effects**

Hazardous by OSHA criteria.

**Epidemiology**

Hazardous by OSHA criteria.

**Further information**

Symptoms may be delayed.

**12. Ecological Information****Ecotoxicity**

LC50 26529 mg/L estimated, Fish, 96.00 Hours,  
EC50 40784 mg/L estimated, Daphnia, 48.00 Hours,  
IC50 3067 mg/L estimated, Algae, 72.00 Hours,  
Components of this product have been identified as having potential environmental concerns.

**Ecotoxicity - Freshwater Algae Data**

Isopropyl alcohol	67-63-0	96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L
-------------------	---------	--

**Ecotoxicity - Freshwater Fish Species Data**

Isopropyl alcohol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)
Methanol	67-56-1	96 Hr LC50 Pimephales promelas: 28100 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 13200 mg/L

**Ecotoxicity - Microtox Data**

Isopropyl alcohol	67-63-0	5 min EC50 Photobacterium phosphoreum: 35390 mg/L
Methanol	67-56-1	5 min EC50 Photobacterium phosphoreum: 43000 mg/L; 15 min EC50 Photobacterium phosphoreum: 40000 mg/L; 25 min EC50 Photobacterium phosphoreum: 39000 mg/L

**Ecotoxicity - Water Flea Data**

Isopropyl alcohol	67-63-0	48 Hr EC50 Daphnia magna: 13299 mg/L
-------------------	---------	--------------------------------------





**Environmental effects**

**Ecotoxicity - Freshwater Algae Data**

Isopropyl alcohol 67-63-0 96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L

**Ecotoxicity - Freshwater Fish Species Data**

Isopropyl alcohol 67-63-0 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)

Methanol 67-56-1 96 Hr LC50 Pimephales promelas: 28100 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 13200 mg/L

**Ecotoxicity - Microtox Data**

Isopropyl alcohol 67-63-0 5 min EC50 Photobacterium phosphoreum: 35390 mg/L

Methanol 67-56-1 5 min EC50 Photobacterium phosphoreum: 43000 mg/L; 15 min EC50 Photobacterium phosphoreum: 40000 mg/L; 25 min EC50 Photobacterium phosphoreum: 39000 mg/L

**Ecotoxicity - Water Flea Data**

Isopropyl alcohol 67-63-0 48 Hr EC50 Daphnia magna: 13299 mg/L

**13. Disposal Considerations**

**Waste codes**

D001: Waste Flammable material with a flash point <140 F

**U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics**

Methanol 67-56-1 waste number U154 (Ignitable waste)

**Disposal instructions**

Dispose of this material and its container at hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose in accordance with all applicable regulations.

**14. Transport Information**

**Department of Transportation (DOT) Requirements**

**Basic shipping requirements:**

**Proper shipping name** Flammable liquids, n.o.s. (Isopropyl alcohol, Methanol)

**Hazard class** 3

**UN number** UN1993

**Packing group** III

**Additional information:**

**Packaging non bulk** 202

**Packaging bulk** 242

**ERG code** 128





**Department of Transportation (DOT) Requirements**

**Bulk**

**Basic shipping requirements:**

<b>Proper shipping name</b>	Flammable liquids, n.o.s. (Methanol, RQ: 5000 lbs) (Isopropyl alcohol, METHANOL)
<b>Hazard class</b>	3
<b>UN number</b>	UN1993
<b>Packing group</b>	III
<b>Additional information:</b>	
<b>Packaging non bulk</b>	202
<b>Packaging bulk</b>	242
<b>ERG code</b>	128



**Canadian Transportation of Dangerous Goods (TDG) Requirements**

**Basic shipping requirements:**

<b>Proper shipping name</b>	FLAMMABLE LIQUID, TOXIC, N.O.S. (Isopropyl alcohol, METHANOL)
<b>Hazard class</b>	3
<b>Subsidiary hazard class</b>	6.1
<b>UN number</b>	UN1992
<b>Packing group</b>	III
<b>Additional information:</b>	
<b>Special provisions</b>	16
<b>ERG code</b>	131



**IMDG**

**Basic shipping requirements:**

<b>Proper shipping name</b>	FLAMMABLE LIQUID, TOXIC, N.O.S. (Isopropyl alcohol, METHANOL)
<b>Hazard class</b>	3
<b>Subsidiary hazard class</b>	6.1
<b>UN number</b>	1992
<b>Packing group</b>	III



**IATA**

**Basic shipping requirements:**

<b>Proper shipping name</b>	Flammable liquid, n.o.s. (Isopropyl alcohol, METHANOL)
<b>Hazard class</b>	3
<b>UN number</b>	1993
<b>Packing group</b>	III





## 15. Regulatory Information

### Labelling

**Contains** Isopropyl alcohol, Methanol

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

#### FEMA (Flavor and Extract Manufacturers Association) - FEMA Numbers

Isopropyl alcohol 67-63-0 2929

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

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

Methanol 67-56-1 1.0 % de minimis concentration

#### U.S. - FDA - Color Additives Conditionally Approved for Use in Foods

Isopropyl alcohol 67-63-0 21 CFR 73.1

#### U.S. - FDA - Direct Food Additives

Isopropyl alcohol 67-63-0 21 CFR 172.515, 21 CFR 173.240, 21 CFR 173.340

Methanol 67-56-1 21 CFR 173.250

### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

### CERCLA (Superfund) reportable quantity

Methanol: 5000.0000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**International regulations****Canada - WHMIS - Ingredient Disclosure List**

Isopropyl alcohol	67-63-0	1 %
Methanol	67-56-1	1 %

**State regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - Massachusetts - Right To Know List**

Isopropyl alcohol	67-63-0	Present
Methanol	67-56-1	Present

**U.S. - Minnesota - Hazardous Substance List**

Isopropyl alcohol	67-63-0	Present
Methanol	67-56-1	Skin

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Isopropyl alcohol	67-63-0	sn 1076; sn 2381 (strong-acid process manufacture)
Methanol	67-56-1	sn 1222

**U.S. - Pennsylvania - RTK (Right to Know) List**

Isopropyl alcohol	67-63-0	Environmental hazard
Methanol	67-56-1	Environmental hazard

**U.S. - Rhode Island - Hazardous Substance List**

Isopropyl alcohol	67-63-0	Toxic; Flammable
Methanol	67-56-1	Toxic; Flammable

**U.S. - Texas - Effects Screening Levels - Long Term**

Isopropyl alcohol	67-63-0	320 ppb ESL (odor); 785 µg/m <sup>3</sup> ESL (odor)
Methanol	67-56-1	200 ppb ESL; 262 µg/m <sup>3</sup> ESL

**U.S. - Texas - Effects Screening Levels - Short Term**

Isopropyl alcohol	67-63-0	3200 ppb ESL (odor); 7850 µg/m <sup>3</sup> ESL (odor)
Methanol	67-56-1	2000 ppb ESL; 2620 µg/m <sup>3</sup> ESL

**16. Other Information****HMIS® ratings**

Health: 2  
Flammability: 3  
Physical hazard: 0

**NFPA ratings**

Health: 2  
Flammability: 3  
Instability: 0

**Prepared by**

Amanda L. Ruston  
4420 South Flores Road  
Elmendorf, Texas 78112  
210-626-0850

**Disclaimer**

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

**MSDS sections updated**

Product and Company Identification: Product and Company Identification

