SAFETY DATA SHEET

This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

****

Section I - Product & Company Identification

Product identifier

Product name : DENATURED ETHYL ALCOHOL
Product form: Liquid
Other means of identification: R01080

Relevant identified uses of the substance or mixture: Solvent

Details of the supplier of the safety data sheet

Eaton Chemical, Inc.
4124 NW Riverside Street Riverside, MO 64150
Phone: (816) 741-7985
Fax: (816) 741-0405
Email: custserv@eatonchemical.com

Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

Classification

Flammable liquid (Category 2)
Skin irritation (Category 2)
Serious eye damage/irritation (Category 2B)
Specific target organ toxicity-single exposure (Category 3), respiratory irritation

Pictogram



Signal Word

DANGER !

Hazard Statements

Highly flammable liquid and vapor.
Causes skin and eye irritation
May cause respiratory irritation.

Precautionary Statements – 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 electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Use in well-ventilated area.
Wash face, hands and any exposed skin thoroughly after handling
In case of inadequate ventilation, wear respiratory protection.
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing mist/vapors/spray.

Precautionary Statements – Response

In case of fire: Consider carbon dioxide, dry chemical, dry sand or alcohol resistant foam to extinguish.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash skin with plenty of soap and water. If irritation occurs get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements – Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section III –Composition/Information on ingredients

Mixture

Name	CAS NO.	%
Ethyl alcohol	64-17-5	50-90
Isopropyl alcohol	67-63-0	1-20
1-Methoxy-2-propanol	107-98-2	1-5

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section IV – First Aid Measures

First Aid Measures

Inhalation: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.
Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Ingestion: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin Contact: Remove contaminated clothing, wash with plenty of water. If skin irritation persists, call a physician.

Most Important Symptoms and Effects, both Acute and Delayed
Symptoms
May cause eye and skin irritation.
May cause respiratory irritation

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: Treat symptomatically.

Section V – Fire Fighting Measures

Suitable Extinguishing Media
Alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media: High volume water jet.
Specific Hazards Arising from the Chemical
Carbon oxides
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH approved and full protective gear.

Section VI –Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so. Contain spillage.

Methods for Cleaning Up: Eliminate all sources of ignition. Collect with an electrically protected vacuum or by wet-brushing and place in container for disposal. Keep in suitable, closed containers for disposal.

Section VII – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section VIII – Exposure Controls/ Personal Protection

Exposure Guidelines:

Chemical Name	CAS #	ACGIH TLV	OSHA PEL	NIOSH TWA
Ethyl alcohol	64-17-5	TWA: 1000 ppm	TWA:1000 ppm	No data available
Isopropyl alcohol	67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm STEL: 500 ppm	No data available
1-Methoxy-2-propanol	107-98-2	TWA: 50 ppm STEL: 100 ppm	No data available	TWA:100 ppm STEL: 150 ppm

Engineering Controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Respiratory Protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eye Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Skin Protection: Prevent contact with shoes and clothing; use rubber apron and overshoes.
Other Protective Equipment: Eye wash stations and emergency showers should be available. The type and degree of personal protective equipment appropriate will depend on the specific work operation. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

Section IX – Physical & Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Color	Clear/ colorless

Property	**Values**
pH	No data available
Melting Point/Freezing Point	-114.1 º C / No data available
Boiling Point/Boiling Range	78.5º C (173.3 º F)
Flash Point	13 º C (55.4 º F) TCC
Evaporation Rate	No data available
Flammability (Solid,Gas)	n/a-liquid
Upper Flammable Limits	19.0 % (V)
Lower Flammable Limits	3.3% (V)
Vapor Pressure	57.3 hPa at 20 º C
Vapor Density	1.6
Specific Gravity	0.80
Water Solubility	Soluble
Solubility in Other Solvents	No data available
Partition Coefficient	-0.32
Autoignition Temperature	363 º C (685.4 º F)
Decomposition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	No data available
Explosive Properties	Not an Explosive
Oxidizing Properties	No data available
Odor	Alcohol odor
Odor Threshold	No data available

Section X – Stability & Reactivity

Reactivity
Not reactive under normal conditions.
Chemical Stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
Reacts with strong oxidizing agents, strong acids and strong bases.
Conditions to Avoid
Heat, sparks, flames.
Extremes of temperature.
Incompatible Materials Strong oxidizing agents, bases, reducing agents, acids, alkalis.
Hazardous Decomposition Products
Carbon dioxide, carbon monoxide, oxides of nitrogen.

Section XI - Toxicological information

Information on Likely Routes of Exposure

Product Information
Inhalation: May cause respiratory irritation.
Eye Contact: Causes eye irritation
Skin Contact: Prolonged or repeated contact may cause drying, cracking or irritation.
Ingestion: None known.

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl alcohol	64-17-5	7060 mg/kg (Rat)	No data available	No data available
Isopropyl alcohol	67-63-0	4396 mg/kg (Rat)	12800 mg/kg (Rat)	72.6 mg/l/4h (Rat)
1-Methoxy-2-propanol	107-98-2	LD50 Oral - Mouse - 11,700 mg/kg	LD50 Dermal - Rabbit - 13,000 mg/kg	LC50 Inhalation - Rat - 5 h - 10000 ppm

Chemical Name	Ethyl alcohol	Isopropyl alcohol	1-Methoxy-2-propanol
Skin corrosion/irritation	irritation	May cause dry skin	No data available
Serious eye damage/irritation	eye irritation	Serious eye irritation	Mild eye irritation
Respiratory or skin sensitization	Not expected to be a sensitizer	Not expected to be a sensitizer	No data available
Mutagenicity	No data available	No data available.	No data available.
Carcinogenicity	Not classified as a human carcinogen.	Not classified as a human carcinogen.	Not classified as a human carcinogen.
Reproductive toxicity	Developmental toxin when consumed during pregnancy.	Does not meet criteria for classification in categories 1A/1B.	No data available
Specific target organ toxicity-Single exposure	May cause drowsiness or dizziness	May cause drowsiness or dizziness	May cause drowsiness or dizziness
Specific target organ toxicity-repeated exposure	Not classified	Not classified	Not classified
Aspiration hazard	Not classified	Not classified.	Not classified

Section XII - Ecological information

There is no data available for this product as a whole.

Chemical Name	CAS #	Algae/aquatic plants	Fish	Aquatic invertebrates
Ethyl alcohol	64-17-5	No data available.	LC50(Pimephales promelas, 96 h): 14.2 mg/l	EC50(Daphnia magna, 48 h): 9268 mg/l
Isopropyl alcohol	67-63-0	EC50-Desmodesmus subspicatus->2000 mg/l – 72 h	LC50(Pimephales promelas, 96 h): 9640 mg/l	EC50(Daphnia magna, 24 h): 5102 mg/l
1-Methoxy-2-propanol	107-98-2	No data available	No data available	No data available

Persistence and Degradability
No data available
Bioaccumulation
No data available
Mobility
No data available

Section XIII - Disposal considerations

WASTE DISPOSAL METHOD
Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

Section XIV - Transport information

DOT Proper Shipping Description:
UN1987, Alcohols N.O.S.(Ethyl alcohol, Isopropyl alcohol), 3, PGII

Section XV - Regulatory information

SARA Title III Section 311/312 (40CFR370): Fire and Acute and chronic health hazards.
SARA Title III Section 313 (40CFR372): Isopropyl alcohol
RCRA Status(40CFR261.33): Not listed
TSCA Inventory Status: Included
OSHA/NTP/IARC Carcinogen Status: Not listed
Canadian DSL Status: listed
Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:
This material is not known to contain a chemical currently listed as carcinogens or reproductive toxins.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol	X	X	X
Isopropyl alcohol	X	X	X
1-Methoxy-2-propanol	X	X	X

Section XVI - Other information

HMIS ratings: Health: 2 Flammability: 3 Reactivity: 0

Indication of changes: Revision – 2 Ingredient change.

Date Sheet Prepared: 10/04/2017

Other information: Author – EHS Administrator

****

The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty's, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.

END OF SDS