Product Number 834

Issuing Date No data available

SAFETY DATA SHEET

Revision Number 3

Revision Date 11-DEC-2017

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Denatured Alcohol

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Fuel

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier NameSunnyside CorporationSupplier Address225 Carpenter Avenue

Wheeling

IL

60090

US

Supplier Phone Number Phone:8003238611

Fax:8475419043

Supplier Emailsscontact@sunnysidecorp.comEmergency telephone numberChem Trec 8004249300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3



Specific target organ toxicity (single exposure)	Category 1
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger

Hazard Statements

Toxic if swallowed
Toxic in contact with skin

Toxic if inhaled

Causes damage to organs

Highly flammable liquid and vapor



Appearance Clear Physical State Liquid Odor Alcohol

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

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

Keep cool

Precautionary Statements - Response

IF exposed: Call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

Skin

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

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician



Denatured Alcohol

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

Other information

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

.

Chemical Name	CAS No	Weight-%	Trade Secret
Ethyl Alcohol	64-17-5	30 - 60	
Methyl Alcohol	67-56-1	30 - 60	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical

attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice. Remove contact lenses, if present and easy

to do. Continue rinsing.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and

plenty of water while removing all contaminated clothes and shoes.

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Inhalation Remove to fresh air. If breathing is difficult, (trained personnel should) give

oxygen. If not breathing, give artificial respiration. Avoid direct contact with skin.

Use barrier to give mouth-to-mouth resuscitation.

Ingestion Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

Never give anything by mouth to an unconscious person. Call a physician or

poison control center immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take

> precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Coughing and/ or wheezing. Difficulty in breathing.

Effects

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable Extinguishing Media

CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Uniform Fire Code Flammable Liquid: I-B

Highly Toxic: Liquid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Full encapsulating, vapor protective clothing should be worn for

spills and leaks with no fire. Stop leak if you can do it without risk.

Other Information Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for Containment A vapor suppressing foam may be used to reduce vapors. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Use

clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection equipment. Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Use only with adequate ventilation and in closed systems. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this

product. Take off contaminated clothing and wash before reuse. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding

connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers.

Use according to package label instructions.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Protect from moisture. Store away from other materials. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular

national regulations. Store in accordance with local regulations.

Incompatible ProductsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



Control parameters

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Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl Alcohol	STEL = 250 ppm	TWA: 200 ppm	IDLH: 6000 ppm
	TWA: 200 ppm	TWA: 260 mg/m ³	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 260 mg/m ³
		(vacated) TWA: 260 mg/m ³	STEL: 325 mg/m ³
		(vacated) STEL: 250 ppm	STEL: 250 ppm
		(vacated) STEL: 325 mg/m ³	
		(vacated) S*	
Ethyl Alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm 10% LEL
		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	_

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d

962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles.

Skin and Body Protection Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant

apron. Impervious gloves. Antistatic boots.

exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice. Wear suitable

gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.

Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Liquid Appearance Clear

Appearance Clear Odor Alcohol

Color No information available Odor Threshold No information available

Property Values Remarks/ Method

pH N/A None known Melting / freezing point No data available None known



None known

None known

Boiling point / boiling range64 °C / 147 °FNone knownFlash Point10 °C / 50 °FNone knownEvaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone known

Flammability Limit in Air

Upper flammability limitNo data availableLower flammability limit3.3% @ 77°FVapor pressureNo data available

No data available Vapor density None known **Specific Gravity** No data available None known Water Solubility Appreciable None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known **Autoignition temperature** 685°F None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known

Dynamic viscosityNo data availableExplosive propertiesNo data availableOxidizing PropertiesNo data available

Other Information

Softening Point No data available

VOC Content (%) 100%

Particle Size No data available

Particle Size Distribution

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Excessive heat. Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure



Denatured Alcohol

Product Information

Inhalation Specific test data for the substance or mixture is not available. Toxic by inhalation. (based

on components).

Eye Contact Specific test data for the substance or mixture is not available.

Skin Contact Specific test data for the substance or mixture is not available. Toxic in contact with skin.

May be absorbed through the skin in harmful amounts. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Harmful if swallowed. (based

on components). May be fatal or cause blindness if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl Alcohol	= 5628 mg/kg (Rat)	-	= 83.2 mg/L (Rat) 4 h
Ethyl Alcohol	-	-	= 124.7 mg/L (Rat)4 h

Information on toxicological effects

Symptoms Coughing and/ or wheezing. Difficulty in breathing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as

alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl Alcohol	A3	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity No information available.

STOT - single exposure Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29

CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for

ingredients found within this product. Detailed substance and/or ingredient information may be provided in other sections of this SDS. Target organs effects listed in this document may result from a single overexposure to this product. Causes damage to organs if swallowed. Causes damage to organs in contact with skin. Causes damage to organs if inhaled.



STOT - repeated exposureNo information available.

Chronic Toxicity Effects from this product caused by acute exposure may cause permanent damage to

target organs and/or may cause chronic conditions. Inhalation, ingestion, or skin absorption

of methanol can cause blindness.

Target Organ Effects Respiratory system. Systemic Toxicity. Eyes. Skin. Gastrointestinal tract (GI). Blood.

Central Nervous System (CNS). Liver. Reproductive System.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
191.00 mg/kg
ATEmix (dermal)
574.00 mg/kg (ATE)
ATEmix (inhalation-dust/mist)
0.96 mg/l
ATEmix (inhalation-vapor)
6.00 ATEmix

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Chemical Name	Log Pow
Methyl Alcohol	-0.77
Ethyl Alcohol	-0.32

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methodsThis material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated PackagingDispose of contents/containers in accordance with local regulations.

US EPA Waste Number D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl Alcohol		Included in waste stream:		U154
		F039		

California Hazardous Waste Codes 212

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methyl Alcohol	Toxic
·	Ignitable
Ethyl Alcohol	Toxic
	Ignitable

14. TRANSPORT INFORMATION

DOT

<u>U</u>N# UN1987

Proper Shipping Name ALCOHOLS, NOS

Hazard Class || Packing Group 2

Description UN1987, ALCOHOLS, NOS, 3, PGII

TDG

UN-No. UN1986

Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

Hazard Class 3
Subsidiary class (6.1)
Packing Group

Description UN1986, ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL, ETHANOL), 3 (6.1), II

MEX

UN-No. UN1986

Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

Hazard Class 3
Subsidiary class 6.1
Packing Group ||

Description UN1986, ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL, ETHANOL), 3 (6.1), II

ICAO

UN-No. UN1986

Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.



Hazard Class 3 **Subsidiary class** 6.1 **Packing Group** Ш

Description UN1986, ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL, ETHANOL), 3 (6.1), II

IATA

UN-No. UN1986

Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

Hazard Class Subsidiary class 6.1 **Packing Group** Ш

Description UN1986, ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL, ETHANOL), 3 (6.1), II

IMDG/IMO

UN-No. UN1986

Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

Hazard Class Subsidiary class 6.1 **Packing Group** Ш EmS No. F-E, S-D

Description UN1986, ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL, ETHANOL), 3 (6.1), II,

FP 10C

RID

UN-No. UN1986

Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

Hazard Class Packing Group Ш Classification code FT1

Description UN1986, ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL, ETHANOL), 3 (6.1), II

ADR/RID-Labels

ADR

UN-No. UN1986

Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

Hazard Class Packing Group Ш Classification code FT1

Description UN1986, ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL, ETHANOL), 3 (6.1), II

ADR/RID-Labels 6.1

ADN

UN-No. UN1986

Proper Shipping Name ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.

Hazard Class 3 **Packing Group** Ш Classification code FT1 **Special Provisions** 274.802

Description UN1986, ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL, ETHANOL), 3 (6.1), II

Hazard Labels 3 + 6.1**Limited Quantity** 1 L Ventilation

VE01, VE02

15. REGULATORY INFORMATION

International Inventories



TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methyl Alcohol		30 - 60	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl Alcohol	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65		
Methyl Alcohol	Developmental		
Ethyl Alcohol	Carcinogen		
	Developmental		
MIBK	Carcinogen		

U.S. State Right-to-Know Regulations

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Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Methyl Alcohol	Χ	X	X	X	Χ
MIBK		X			
Ethyl Alcohol	Х	Х	Х	Х	X
·					

International Regulations



Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Methyl Alcohol		Mexico: TWA= 200 ppm
(30 - 60)		Mexico: TWA= 260 mg/m ³
		Mexico: STEL= 250 ppm
		Mexico: STEL= 310 mg/m ³
Ethyl Alcohol		Mexico: TWA 1000 ppm
(30 - 60)		Mexico: TWA 1900 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

B2 - Flammable liquid D2B - Toxic materials



16. OTHER INFORMATION

NFPA Health Hazards 3 Flammability 3 Instability 0 Physical and Chemical Hazards - HMIS Health Hazards 3 Flammability 3 Physical Hazard 0 Personal Protection

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Revision Date 17-Sep-2014

Revision Note No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

