

# SAFETY DATA SHEET

Product Number 834

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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 Name Sunnyside Corporation  
Supplier Address 225 Carpenter Avenue  
Wheeling  
IL  
60090  
US  
Supplier Phone Number Phone:8003238611  
Fax:8475419043  
Supplier Email sscontact@sunnysidecorp.com  
Emergency telephone number Chem 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




**Denatured Alcohol**

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

**GHS Label elements, including precautionary statements**

**Emergency Overview**

<b>Signal word</b>	<b>Danger</b>	
<b>Hazard Statements</b> Toxic if swallowed Toxic in contact with skin Toxic if inhaled Causes damage to organs Highly flammable liquid and vapor		
		
<b>Appearance</b> Clear	<b>Physical State</b> Liquid	<b>Odor</b> 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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<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Self-protection of the first aider</b>	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 Effects** Coughing and/ or wheezing. Difficulty in breathing.

**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 (CO<sub>2</sub>). 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.

<b>Uniform Fire Code</b>	Flammable Liquid: I-B Highly Toxic: Liquid
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**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 Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



Denatured Alcohol

**Control parameters**

**Exposure Guidelines**

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

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.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle 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**

<b>Physical State</b>	Liquid	<b>Odor</b>	Alcohol
<b>Appearance</b>	Clear	<b>Odor Threshold</b>	No information available
<b>Color</b>	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	N/A	None known
Melting / freezing point	No data available	None known



## Denatured Alcohol

<b>Boiling point / boiling range</b>	64 °C / 147 °F	None known
<b>Flash Point</b>	10 C / 50 F	None known
<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	3.3% @ 77°F	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	Appreciable	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition temperature</b>	685°F	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

### Other Information

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	100%
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

## 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

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. Toxic by inhalation. (based on components).
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin Contact</b>	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).
<b>Ingestion</b>	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.





<b>STOT - repeated exposure</b>	No information available.
<b>Chronic Toxicity</b>	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.
<b>Target Organ Effects</b>	Respiratory system. Systemic Toxicity. Eyes. Skin. Gastrointestinal tract (GI). Blood. Central Nervous System (CNS). Liver. Reproductive System.
<b>Aspiration Hazard</b>	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 methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Dispose 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: F039		U154

#### **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

**UN#** UN1987  
**Proper Shipping Name** ALCOHOLS, NOS  
**Hazard Class** II  
**Packing Group** 3  
**Description** UN198, 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** II  
**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** II  
**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.



## Denatured Alcohol

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**Hazard Class** 3  
**Subsidiary class** 6.1  
**Packing Group** II  
**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** 3  
**Subsidiary class** 6.1  
**Packing Group** II  
**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** 3  
**Subsidiary class** 6.1  
**Packing Group** II  
**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** 3  
**Packing Group** II  
**Classification code** FT1  
**Description** UN1986, ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL, ETHANOL), 3 (6.1), II  
**ADR/RID-Labels** 6.1

### ADR

**UN-No.** UN1986  
**Proper Shipping Name** ALCOHOLS, FLAMMABLE, TOXIC, N.O.S.  
**Hazard Class** 3  
**Packing Group** II  
**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** II  
**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

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**Denatured Alcohol**

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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**

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

**International Regulations**

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**Mexico**

**National occupational exposure limits**

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

Mexico - Occupational Exposure Limits - Carcinogens

**Canada**

**WHMIS Hazard Class**

B2 - Flammable liquid

D2B - Toxic materials



**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 3	<b>Flammability</b> 3	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazards</b> 3	<b>Flammability</b> 3	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

**Prepared By** Product Stewardship  
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**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**