

SAFETY DATA SHEET

1. Identification

Product identifier	METHYL ALCOHOL, HPLC	
Other means of identification		
Product code	2483	
Synonym(s)	WOOD ALCOHOL * METHANO	-
Recommended use	professional, scientific and tech	nnical activities: scientific research and development
Recommended restrictions	None known.	
Manufacturer/Importer/Supp	lier/Distributor information	
Company name Address	GFS Chemicals, Inc. P.O. Box 245 Powell OH 43065 US	
Telephone	Phone Toll Free Fax	740-881-5501 800-858-9682 740-881-5989
Website E-mail	www.gfschemicals.com service@gfschemicals.com	
Emergency phone number	Emergency Assistance	Chemtrec 800-424-9300
2. Hazard(s) identification	on	
Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 3
	Serious eye damage/eye irritat	ion Category 2A

OSHA hazard(s)

Label elements



Specific target organ toxicity, repeated

Specific target organ toxicity, single exposure Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

Reproductive toxicity

exposure

Not classified.

Signal word Hazard statement

Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs (central nervous system, visual organs) through prolonged or repeated exposure.

Category 1B

organs)

Category 1 (central nervous system, visual

Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Use non-sparking tools and explosion-proof equipment. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash skin thoroughly after handling.

Response	Eliminate all ignition sources if safe to do so. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Rinse mouth. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media for extinction.		
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.		
Disposal	Dispose of contents/container to an approved inci	neration plant.	
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid		
Supplemental information			
Hazard statement	Static accumulating flammable liquid can become grounded equipment. Sparks may ignite liquid and		
Precautionary statement			
Prevention	Keep away from heat/sparks/open flames/hot sur receiving equipment. These alone may be insuffic		
3. Composition/informat	ion on ingredients		
Substances			
Hazardous components			
Chemical name	Common name and synonyms	CAC mumbers	%
	common name and synonyms	CAS number	-70
METHYL ALCOHOL	WOOD ALCOHOL METHANOL	67-56-1	100
METHYL ALCOHOL CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. PBT: persistent, bioaccumulative a vPvB: very persistent and very bio #: This substance has been assign	WOOD ALCOHOL METHANOL nd toxic substance.	67-56-1	100
METHYL ALCOHOL CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. PBT: persistent, bioaccumulative a vPvB: very persistent and very bio #: This substance has been assign	WOOD ALCOHOL METHANOL nd toxic substance. accumulative substance. led Community workplace exposure limit(s).	67-56-1 en withheld as a trade se	100 ecret. M: M-factor
METHYL ALCOHOL CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. PBT: persistent, bioaccumulative a vPvB: very persistent and very bio #: This substance has been assign *Designates that a specific chemic	WOOD ALCOHOL METHANOL nd toxic substance. accumulative substance. led Community workplace exposure limit(s). al identity and/or percentage of composition has be The full text for all R-phrases is displayed in Secti	67-56-1 en withheld as a trade se	100 ecret. M: M-factor
METHYL ALCOHOL CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. PBT: persistent, bioaccumulative a vPvB: very persistent and very bio. #: This substance has been assign *Designates that a specific chemic Composition comments	WOOD ALCOHOL METHANOL nd toxic substance. accumulative substance. led Community workplace exposure limit(s). al identity and/or percentage of composition has be The full text for all R-phrases is displayed in Secti	67-56-1 en withheld as a trade se on 16 of the MSDS. The f osition comfortable for be co-mouth method if victin et mask equipped with a	100 ecret. M: M-factor full text for all R- anc reathing. Oxygen or n inhaled the substance. one-way valve or other
METHYL ALCOHOL CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. PBT: persistent, bioaccumulative a vPvB: very persistent and very bio. #: This substance has been assign *Designates that a specific chemic Composition comments 4. First-aid measures	WOOD ALCOHOL METHANOL nd toxic substance. accumulative substance. led Community workplace exposure limit(s). al identity and/or percentage of composition has be The full text for all R-phrases is displayed in Secti H-phrases is displayed in section 16. Remove victim to fresh air and keep at rest in a p artificial respiration if needed. Do not use mouth- Induce artificial respiration with the aid of a pocket	67-56-1 en withheld as a trade se on 16 of the MSDS. The f co-mouth method if victin et mask equipped with a n or poison control center /ash clothing separately b a physician or Poison Con	100 ecret. M: M-factor full text for all R- anc reathing. Oxygen or n inhaled the substance. one-way valve or other immediately. before reuse.
METHYL ALCOHOL CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. PBT: persistent, bioaccumulative a vPvB: very persistent and very bio #: This substance has been assign *Designates that a specific chemic Composition comments 4. First-aid measures Inhalation	WOOD ALCOHOL METHANOL nd toxic substance. accumulative substance. led Community workplace exposure limit(s). al identity and/or percentage of composition has be The full text for all R-phrases is displayed in Secti H-phrases is displayed in section 16. Remove victim to fresh air and keep at rest in a p artificial respiration if needed. Do not use mouth- Induce artificial respiration with the aid of a pocke proper respiratory medical device. Call a physiciar Take off immediately all contaminated clothing. W Immediately flush skin with plenty of water. Call a	67-56-1 en withheld as a trade se on 16 of the MSDS. The f co-mouth method if victin et mask equipped with a n or poison control center /ash clothing separately to a physician or Poison Con on unaffected skin. : least 15 minutes. Remo	100 ecret. M: M-factor full text for all R- anc reathing. Oxygen or n inhaled the substance. one-way valve or other immediately. before reuse. trol Center immediately. ve contact lenses, if

Most important
symptoms/effects, acute and
delayedIrritation of eyes and mucous membranes. Vapors have a narcotic effect and may cause headache,
fatigue, dizziness and nausea. Narcosis. Decrease in motor functions. Behavioral changes.
Prolonged exposure may cause chronic effects.Indication of immediate
medical attention and specialIn case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.
Symptoms may be delayed. Provide general supportive measures and treat symptomatically.

treatment neededGeneral informationEnsure that medical personnel are aware of the material(s) involved, and take precautions to
protect themselves. Take off contaminated clothing and shoes immediately. IF exposed or
concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim
warm. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Alcohol resistant foam. Powder.

Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. By heating and fire, harmful vapors/gases may be formed. Material will float and may ignite on surface of water.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use standard firefighting procedures and consider the hazards of other involved materials. 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. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Immediately evacuate personnel to safe areas. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Should not be released into the environment. This product is miscible in water. Prevent entry into waterways, sewers, basements or confinec areas.
	Large Spills: Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage with non-combustible, absorbent material. Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Keep away from heat/sparks/open flames/hot surfaces No smoking. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code". May be ignited by open flame. These alone may be insufficient to remove static electricity. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with skin. Avoid contact during pregnancy/while nursing. Avoid contact with clothing. Use personal protective equipment as required. Use only in area provided with appropriate exhaust ventilation. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities	CAUTION Keep locked up. Store in a place accessible by authorized persons only. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in cool place. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Keep container tightly closed. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.
8. Exposure controls/per	rsonal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Туре		<u> </u>	/alue	
METHYL ALCOHOL (CAS 67-56-1)	PEL		2	260 mg/m3	
			2	200 ppm	
US. ACGIH Threshold L	imit Values				
Material	Туре		١	/alue	
METHYL ALCOHOL (CAS 67-56-1)	STEL		2	250 ppm	
	TWA		2	200 ppm	
US. NIOSH: Pocket Gui	de to Chemical Hazards	5			
Material	Туре		١	/alue	
METHYL ALCOHOL (CAS 67-56-1)	STEL		3	25 mg/m3	
				250 ppm	
	TWA			260 mg/m3	
			2	200 ppm	
logical limit values					
US. ACGIH. BEIs. Biolo	gical Exposure Indices				
Material	Value	Determinant	Specimen	Sampling Time	
METHYL ALCOHOL (CAS 67-56-1)	15 mg/l	Methanol	Urine	*	
* - For sampling details, p	lease see the source docu	ment.			
osure guidelines					
US. ACGIH Threshold L	imit Values				
METHYL ALCOHOL (C	AS 67-56-1)	Can be	e absorbed thro	augh the skin.	
US. California Code of I	2			5	
	IETHANOL (CAS 67-56-1)		e absorbed thro		
		can be			

US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

METHYL ALCOHOL (CAS 67-56-1) Skin designation applies.

US. NIOSH: Pocket Guide	to Chemical Hazards	
METHYL ALCOHOL (CAS	67-56-1)	Can be absorbed through the skin.
US. OSHA Table Z-1-A (29	CFR 1910.1000)	
METHYL ALCOHOL (CAS	67-56-1)	Can be absorbed through the skin.
US. Rhode Island Hazardo	ous Substances Right-to-Knov	w Act (R.I. Gen. Laws Section 28-21-1 et. seq.)
METHYL ALCOHOL (CAS	-	Can be absorbed through the skin.
US. Tennessee. OELs. Occ	upational Exposure Limits, Ta	able Z1A
METHYL ALCOHOL (CAS	67-56-1)	Can be absorbed through the skin.
Appropriate engineering controls	Explosion-proof general and lo	ocal exhaust ventilation. Provide eyewash station.
Individual protection measure	es, such as personal protectiv	/e equipment
Eye/face protection	Do not get in eyes. Chemical g	goggles are recommended. Eye wash fountains are required.
Skin protection		
Hand protection	Wear protective gloves.	
Other		t should be chosen according to the CEN standards and in discussion nal protective equipment. Wear appropriate chemical resistant oves.
Respiratory protection		on, wear suitable respiratory equipment. Use an organic vapor exceeding the Occupational Exposure Limit.
Thermal hazards	Not available.	
General hygiene considerations	with clothing. Wash hands bef	or smoke. Do not get in eyes. Avoid contact with skin. Avoid contact fore breaks and immediately after handling the product. Handle in al hygiene and safety practice. Provide eyewash station and safety

9. Physical and chemical properties

Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Slight.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-144 °F (-97.8 °C)
Initial boiling point and boiling range	148.46 °F (64.7 °C) 101.325 kPa
Flash point	53.60 °F (12.00 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	7.3
Flammability limit - upper (%)	36
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	16.93 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Miscible
Partition coefficient (n-octanol/water)	-0.8
Auto-ignition temperature	464 °F (240 °C)
Decomposition temperature	When heated to decomp, emits acrid smoke and irritating fumes.
Viscosity	Not available.

0.79 g/cm3 estimated
0.614 mPa.s
Flammable IB estimated
Flammable IB
19 kJ/g
C-H4-O
32.04 g/mol
100 %
0.7866 at 25 °C
100 %

10. Stability and reactivity

Reactivity	Strong oxidizing substances.
Chemical stability	Risk of explosion. Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritants. May include oxides of carbon.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Toxic if swallowed.
Inhalation	Toxic by inhalation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Skin contact	Toxic in contact with skin.
Eye contact	Harmful in contact with eyes.
Symptoms related to the physical, chemical and toxicological characteristics	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Narcosis. Behavioral changes. Decrease in motor functions. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity Toxic by inhalation. Toxic if swallowed. Toxic in contact with skin.

Acute toxicity		Toke by initialation. Toke if Swallowed. Toke in contact with skin.		
Product	Species	Test Results		
METHYL ALCOHOL (CAS 6	7-56-1)			
Acute				
Dermal				
LD50	Rabbit	15800 mg/kg		
Inhalation				
LC50	Cat	85.41 mg/l, 4.5 Hours		
		43.68 mg/l, 6 Hours		
	Rat	64000 mg/l, 4 Hours		
		87.5 mg/l, 6 Hours		
Oral				
LD50	Dog	8000 mg/kg		
	Monkey	2 g/kg		
	Mouse	7300 mg/kg		
	Rabbit	14.4 g/kg		
	Rat	5628 mg/kg		
Other				
LD50	Guinea pig	3556 mg/kg		
	Hamster	8555 mg/kg		

Product	Species	Test Results
	Monkey	3 g/kg
	Mouse	4100 mg/kg
	Rabbit	1826 mg/kg
	Rat	2131 mg/kg
* Estimates for product may b	e based on additional component data not shown.	
Skin corrosion/irritation	Due to lack of data the classification is not possible.	
Serious eye damage/eye irritation	Harmful in contact with eyes. Causes serious eye irri	tation.
Respiratory sensitization	Due to lack of data the classification is not possible.	
Skin sensitization	Due to lack of data the classification is not possible.	
Germ cell mutagenicity	Due to lack of data the classification is not possible.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Reproductive toxicity	May damage fertility or the unborn child.	
Specific target organ toxicity - single exposure	Causes damage to organs. May cause irritation to th	e respiratory system. Narcotic effects.
Specific target organ toxicity - repeated exposure	Causes damage to organs (central nervous system, exposure.	visual organs) through prolonged or repeated
Aspiration hazard	Due to lack of data the classification is not possible.	
Chronic effects	Hazardous by OSHA criteria. Prolonged inhalation m disorder of central nervous system, liver, kidneys an chronic effects. Causes damage to organs through p	d blood. Prolonged exposure may cause
Further information	Danger of very serious irreversible effects. Symptom	s may be delayed.

12. Ecological information

Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.		
Product		Species	Test Results
METHYL ALCOHOL (CAS 67-	56-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours

 $\ensuremath{\,^{\ast}}$ Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

-0.77	
Mobility in soil	Not available.
Other adverse effects	Not available.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Not available.
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

DOT	
UN number	UN1230
UN proper shipping name	Methanol
Transport hazard class(es)	3
Subsidary class(es)	Not available.
Packing group	Π
Special precautions for	Read safety instructions, SDS and emergency procedures before handling. Read safety
user	instructions, MSDS and emergency procedures before handling.
Labels required	3
Special provisions	IB2, T7, TP2
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
IATA	
UN number	UN1230
	Methanol
UN proper shipping name	
Transport hazard class(es)	
Subsidary class(es)	6.1
Packaging group	II
Environmental hazards	No
Labels required	Not available.
ERG Code	3P
Special precautions for	Not available.
user	
IMDG	
UN number	UN1230
UN proper shipping name	METHANOL
Transport hazard class(es)	
Subsidary class(es)	6.1
Packaging group	II
Environmental hazards	
Marine pollutant	No
Labels required	Not available.
EmS	F-E, S-D
Special precautions for	Not available.
user	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.
DOT	
FLAMMABLE 3	
IATA; IMDG	
8	

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15. Regulatory information

US federal regulations	All components are on the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard 29 CFR 1910.1200.	Communication Standard,
TSCA Section 12(b) Exp	ort Notification (40 CFR 707, Subpt. D)	
Not regulated.		
	egulated Substances (29 CFR 1910.1001-1050)	
Not on regulatory list.		
	stance List (40 CFR 302.4)	
METHYL ALCOHOL (CA		
•	d Reauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazardous substance	No	
SARA 311/312 Hazardous chemical	No	
Other federal regulations		
-	tion 112 Hazardous Air Pollutants (HAPs) List	
METHYL ALCOHOL (CA		
Safe Drinking Water Act	t Contaminate candidate list	
(SDWA)		
Chemical Code Number Not listed. Drug Enforcement Admi	inistration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) an inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131	
Chemical Code Number Not listed.	inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131	
Chemical Code Number Not listed. Drug Enforcement Admi Not regulated.	inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131	
Chemical Code Number Not listed. Drug Enforcement Admi Not regulated. DEA Exempt Chemical M	inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131	
Chemical Code Number Not listed. Drug Enforcement Admi Not regulated. DEA Exempt Chemical M Not regulated. Food and Drug	inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131 Aixtures Code Number	.0.12(c))
Chemical Code Number Not listed. Drug Enforcement Admi Not regulated. DEA Exempt Chemical M Not regulated. Food and Drug Administration (FDA) US state regulations	inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131 Aixtures Code Number Not regulated. WARNING: This product contains a chemical known to the State of Calif	.0.12(c))
Chemical Code Number Not listed. Drug Enforcement Admin Not regulated. DEA Exempt Chemical M Not regulated. Food and Drug Administration (FDA) US state regulations US. Massachusetts I METHYL ALCOHO	inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131 Mixtures Code Number Not regulated. WARNING: This product contains a chemical known to the State of Calif or other reproductive harm. RTK - Substance List L (CAS 67-56-1)	.0.12(c))
Chemical Code Number Not listed. Drug Enforcement Admi Not regulated. DEA Exempt Chemical M Not regulated. Food and Drug Administration (FDA) US state regulations US. Massachusetts I METHYL ALCOHO US. New Jersey Wor	inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131 Aixtures Code Number Not regulated. WARNING: This product contains a chemical known to the State of Calif or other reproductive harm. RTK - Substance List L (CAS 67-56-1) rker and Community Right-to-Know Act	.0.12(c))
Chemical Code Number Not listed. Drug Enforcement Admi Not regulated. DEA Exempt Chemical M Not regulated. Food and Drug Administration (FDA) US state regulations US. Massachusetts I METHYL ALCOHO US. New Jersey Woo METHYL ALCOHO	inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131 Aixtures Code Number Not regulated. WARNING: This product contains a chemical known to the State of Califor or other reproductive harm. RTK - Substance List L (CAS 67-56-1) rker and Community Right-to-Know Act L (CAS 67-56-1) 500 LBS	.0.12(c))
Chemical Code Number Not listed. Drug Enforcement Admi Not regulated. DEA Exempt Chemical M Not regulated. Food and Drug Administration (FDA) US state regulations US. Massachusetts I METHYL ALCOHO US. New Jersey Woo METHYL ALCOHO US. Pennsylvania R	inistration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 131 Mixtures Code Number Not regulated. WARNING: This product contains a chemical known to the State of Calif or other reproductive harm. RTK - Substance List L (CAS 67-56-1) rker and Community Right-to-Know Act L (CAS 67-56-1) 500 LBS TK - Hazardous Substances	.0.12(c))
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Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico *A "Yes" indicates this product co	Toxic Substances Control Act (TSCA) Inventory omplies with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

Issue date Revision date Version #	October-22-2012 August-29-2013 03
Further information	Not 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. The information in the sheet was written based on the best knowledge and experience currently available.