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SAFETY DATA SHEET

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
212516	Bottle Tb Methylene Blue 250MI	

Other means of identification

SDS number: 088100175758

Recommended use and restriction on use

Recommended use: Laboratory Chemicals

Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: BD Diagnostic Systems
Address: 7 Loveton Circle
21152 Sparks, MD USA
Telephone: 1 410 771 0100 or 1 800 638 8663
Fax:
Contact Person: Tech Services

Emergency telephone number: ChemTrec 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3

Environmental Hazards

Acute hazards to the aquatic environment Category 2

Label Elements

Hazard Symbol:



Signal Word: Warning



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Hazard Statement:	H226: Flammable liquid and vapor.
Precautionary Statements	
Prevention:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P240: Ground and bond container and receiving equipment. P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment. P242: Use non-sparking tools. P243: Take action to prevent static discharges. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response:	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P370+P378: In case of fire: Use water spray, fog, CO2, dry chemical, or alcohol resistant foam.
Storage:	P403+P235: Store in a well-ventilated place. Keep cool.
Disposal:	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	-: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. -: Sparks may ignite liquid and vapor. -: May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Ethanol		64-17-5	28.5%
Methanol		67-56-1	1.5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical attention if symptoms occur.



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Ingestion:	Get medical attention immediately.
Inhalation:	Get medical attention if any discomfort continues.
Skin Contact:	Wash the skin immediately with soap and water.
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.

Most important symptoms/effects, acute and delayed

Symptoms:	No data available.
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Indication of immediate medical attention and special treatment needed

Treatment:	Symptoms may be delayed.
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5. Fire-fighting measures

General Fire Hazards:	No specific recommendations.
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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Water spray, fog, CO ₂ , dry chemical, or alcohol resistant foam.
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Unsuitable extinguishing media:	No data available.
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Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
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Special protective equipment and precautions for firefighters

Special fire fighting procedures:	No data available.
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Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	No special precautionary health measures should be needed under anticipated conditions of use.
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Methods and material for containment and cleaning up:	Collect with absorbent, non-combustible material into suitable containers.
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Notification Procedures: Do not allow to enter drains, sewers or watercourses.

Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Keep away from heat, sparks and open flame.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed. Store away from: Oxidizing agents.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Ethanol	TWA	1,000 ppm 1,900 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1,000 ppm 1,900 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	1,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	ST ESL	10,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	AN ESL	1,880 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	ST ESL	18,800 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	TWA PEL	1,000 ppm 1,900 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (12 2010)
	REL	1,000 ppm 1,900 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm 1,900 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Methanol	STEL	250 ppm 325 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	200 ppm 260 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	250 ppm 325 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	200 ppm 260 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	2,620 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	AN ESL	200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)



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	AN ESL	262 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	ST ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	STEL	250 ppm 325 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA PEL	200 ppm 260 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	Ceiling	1,000 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (12 2010)
	TWA	200 ppm	US. ACGIH Threshold Limit Values (12 2010)
	REL	200 ppm 260 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	250 ppm 325 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	200 ppm 260 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEI (03 2013)

Appropriate Engineering Controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

General information:	Do not eat, drink or smoke when using the product. Wash hands after contact.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection	
Hand Protection:	Chemical resistant gloves Nitrile.
Other:	Wear a lab coat or similar protective clothing.
Respiratory Protection:	In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment.
Hygiene measures:	Observe good industrial hygiene practices.

9. Physical and chemical properties



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Appearance

Physical state:	liquid
Form:	liquid
Color:	According to product specification.
Odor:	Characteristic
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	78 °C
Flash Point:	29 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	Completely Soluble
Solubility (other):	Water.: No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	Not determined.

10. Stability and reactivity

Reactivity:	Product is not reactive under normal conditions and recommended use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Not known.
Conditions to avoid:	Avoid heat.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Nitrogen oxides. Carbon Monoxide. Carbon Dioxide. Hydrogen chloride.



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11. Toxicological information

General information: Under normal conditions of intended use, this material does not pose a risk to health.

Information on likely routes of exposure

Ingestion: In the event of inhalation (ingestion), seek medical attention immediately

Inhalation: Limited inhalation hazard at normal work temperatures.

Skin Contact: Negligible irritation to skin at ambient temperatures.

Eye contact: Do not get in eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 6,666.67 mg/kg

Dermal

Product: ATEmix: 20,000 mg/kg

Inhalation

Product: ATEmix: 200 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Ethanol

Based on available data, the classification criteria are not met.
LOAEL (Rat(Female, Male), Inhalation, 7,318 - 7,496 h): 1.3 mg/l Inhalation
Read-across from supporting substance (structural analogue or surrogate),
Weight of Evidence study
NOAEL (Guinea pig, Inhalation, 10.5 Weeks): 3,000 ppm(m) Inhalation
Experimental result, Supporting study
LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation Read-
across from supporting substance (structural analogue or surrogate),
Supporting study
LOAEL (Monkey, Inhalation, 5 - 20 d): 3.99 mg/l Inhalation Read-across



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from supporting substance (structural analogue or surrogate), Supporting study

Methanol
NOAEL (Rat(Female, Male), Inhalation): 6.66 mg/l Inhalation Experimental result, Weight of Evidence study
LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation Experimental result, Supporting study
NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 2.65 mg/l Inhalation Experimental result, Supporting study
NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 0.26 mg/l Inhalation Experimental result, Supporting study
NOAEL (Rat(Female, Male), Inhalation, 7,318 - 7,496 h): 0.13 mg/l Inhalation Experimental result, Weight of Evidence study

Skin Corrosion/Irritation

Product: Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

In vivo

Product: No data available.

Specified substance(s):

Ethanol Based on available data, the classification criteria are not met.

Reproductive toxicity

Product: Based on available data, the classification criteria are not met.



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Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Ethanol	LC 50 (Fathead Minnow, 96 h): 14,200 mg/l LC 50 (Fathead Minnow, 96 h): 15,300 mg/l LC 50 (Pimephales promelas, 96 h): 14,700 mg/l LC 50 (Zebra danio (Danio rerio), 2 h): > 100 mg/l Mortality LC 50 (Fathead minnow (Pimephales promelas), 24 h): > 18,000 mg/l Mortality
Methanol	LC 50 (Pimephales promelas, 96 h): 29,400 mg/l LC 50 (Fathead minnow (Pimephales promelas), 96 h): 28,500 - 30,400 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 96 h): 13,500 - 17,600 mg/l Mortality LC 50 (Medaka, high-eyes (Oryzias latipes), 24 h): > 10,000 mg/l Mortality LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 18,000 - 20,000 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Ethanol	LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 5,012 mg/l LC 50 (Grass shrimp, freshwater prawn (Palaemonetes kadiakensis), 18 h): 10,100 mg/l LC 50 (Water flea (Ceriodaphnia dubia), 240 h): 1,284 - 2,638 mg/l Mortality LC 50 (Water flea (Daphnia magna), 48 h): 11,825 - 15,009 mg/l Mortality LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 5,231 - 7,115 mg/l Mortality
Methanol	LC 50 (Common bay mussel, blue mussel (Mytilus edulis), 96 h): 15,900 - 17,300 mg/l Mortality LC 50 (Water flea (Daphnia magna), 24 h): 3,616 - 6,414 mg/l Mortality



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LC 50 (Common shrimp, sand shrimp (*Crangon crangon*), 96 h): 1,700 mg/l Mortality
LC 50 (Mussel (*Anodonta imbecillis*), 48 h): 37.02 mg/l Mortality
LC 50 (Brine shrimp (*Artemia salina*), 24 h): 794.8 - 1,020.7 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Ethanol
EC 50 (*Oryzias latipes*, 200 h): 10,270 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
NOAEL (*Oryzias latipes*, 200 h): 11,850 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
LOAEL (*Oryzias latipes*, 200 h): 39,505 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
EC 50 (*Oryzias latipes*, 200 h): 9,164 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
EC 50 (*Oryzias latipes*, 200 h): 14,536 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

Methanol
LOAEL (*Oryzias latipes*, 200 h): 7,900 mg/l Experimental result, Supporting study
NOAEL (*Oryzias latipes*, 200 h): 15,800 mg/l Experimental result, Supporting study
LOAEL (*Oryzias latipes*, 200 h): 39,505 mg/l Experimental result, Supporting study
LOAEL (*Oryzias latipes*, 200 h): 11,850 mg/l Experimental result, Supporting study
NOAEL (*Oryzias latipes*, 200 h): 11,850 mg/l Experimental result, Supporting study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Ethanol
EC10 (Water flea (*Daphnia magna*), 10 d): 454 mg/l
NOEC (Water flea (*Daphnia magna*), 10 d): 9.6 mg/l
LC 50 (*Daphnia magna*, 9 d): 454 mg/l Experimental result, Key study
NOAEL (*Biomphalaria tenagophila*, 8 Weeks): 19.8 mg/l Experimental result, Supporting study
LOAEL (*Palaemonetes pugio*, 12 d): 0.39 g/l Experimental result, Supporting study

Methanol
NOAEL (*Daphnia magna*, 21 d): 122 mg/l Experimental result, Supporting study
NOAEL (*Daphnia magna*, 21 d): 4,380 mg/l Experimental result, Supporting study
NOAEL (*Daphnia magna*, 21 d): 208 mg/l Estimated by calculation, Weight of Evidence study



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Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Ethanol EC10 (Green algae (*Chlorella vulgaris*), 72 h): 11.5 mg/l
EC 50 (Green algae (*Chlorella vulgaris*), 72 h): 275 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Ethanol Readily biodegradable
> 90 % (1 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study
53.4 % (5 d) Soil Read-across from supporting substance (structural analogue or surrogate), Supporting study
97 % Detected in water. Experimental result, Supporting study
84 % Detected in water. Experimental result, Key study

Methanol 83 - 91 % (3 d) Sediment Experimental result, Supporting study
97 % Detected in water. Experimental result, Key study
71.5 % (5 d) Detected in water. Experimental result, Key study
82.7 % (5 d) Detected in water. Experimental result, Key study
69 % Detected in water. Experimental result, Key study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Ethanol Potential to bioaccumulate is low.
Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study
Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study
Leuciscus idus, Bioconcentration Factor (BCF): 0.2 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Not specified
Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study



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Methanol

Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment
Experimental result, Supporting study
Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic sediment
Experimental result, Supporting study
Cyprinus carpio, Bioconcentration Factor (BCF): 1 Aquatic sediment
Experimental result, Supporting study
Cyprinus carpio, Bioconcentration Factor (BCF): 3 Aquatic sediment
Experimental result, Supporting study
Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF):
28,400 (Static)

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Ethanol soil - Very mobile liquid
Methanol No data available.

Other adverse effects: Low acute toxicity to aquatic organisms.

13. Disposal considerations

Disposal instructions: Dispose of waste and residues in accordance with local authority requirements. Do not discharge into drains, water courses or onto the ground.

Contaminated Packaging: Water, if necessary with cleansing agents.

14. Transport information

DOT

UN Number:	UN 3316
UN Proper Shipping Name:	Chemical kits
Transport Hazard Class(es)	
Class:	9
Label(s):	9
Packing Group:	III
Marine Pollutant:	No
Special precautions for user:	Not regulated.



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IMDG

UN Number:	UN 3316
UN Proper Shipping Name:	CHEMICAL KIT
Transport Hazard Class(es)	
Class:	9
Subsidiary risk:	9
EmS No.:	F-A, S-P
Packing Group:	III
Environmental Hazards	
Marine Pollutant:	No
Special precautions for user:	Not regulated.

IATA

UN Number:	UN 3316
Proper Shipping Name:	Chemical kit
Transport Hazard Class(es):	
Class:	9
Subsidiary risk:	9MI
Packing Group:	III
Environmental Hazards	
Marine pollutant:	No
Special precautions for user:	Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Ethanol	100 lbs.
Methanol	5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard
Flammable (gases, aerosols, liquids, or solids)
Hazards Not Otherwise Classified (HNOC)

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



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SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Ethanol	100 lbs.
Methanol	5000 lbs.

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Ethanol	10000 lbs
Methanol	10000 lbs

SARA 313 (TRI Reporting)

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
Methanol	10000 lbs	25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Ethanol	Carcinogenic.
Ethanol	Carcinogenic.
Ethanol	Developmental toxin.
Methanol	Developmental toxin.

US. New Jersey Worker and Community Right-to-Know Act

<u>Chemical Identity</u>
Ethanol
Methanol

US. Massachusetts RTK - Substance List

<u>Chemical Identity</u>
Ethanol
Methanol

US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u>
Ethanol
Methanol



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US. Rhode Island RTK

Chemical Identity

Ethanol
Methanol

16. Other information, including date of preparation or last revision
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Issue Date: 06/25/2018

Version #: 1.2

Revision Information:

Further Information: No data available.

Disclaimer: Disclaimer:
The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.