

Product Name: BD® Detergent Solution Concentrate

Product Code: 660585

Ingredients	CAS No	Function
Water	7732-18-5	Diluent
Citric acid monoglyceride	77-92-9	Surfactant
2-hydroxy-acetic acid	79-14-1	Conductivity/buffering



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SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
660585	BD® Detergent Solution Concentrate	No data available

Recommended restrictions

Recommended use: Scientific and Industrial laboratory use.

Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Becton, Dickinson and Company - BD Biosciences
Address: 2350 Qume Drive
San Jose, CA 95131
USA

Telephone: 1 877 232 8995 or 1 800 424 9300
Fax: not available
Contact Person: Technical Services
E-mail: ResearchApplications@bd.com or ClinicalApplications@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Eye Irritation	Category 1

Label Elements

Hazard Symbol:

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Signal Word: Danger

Hazard Statement: H314: Causes severe skin burns and eye damage.

**Precautionary
Statements**

Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P363: Wash contaminated clothing before reuse.
P321: Specific treatment (see supplemental first aid instructions on this label).
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310: Immediately call a POISON CENTER/doctor.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients



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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	No data available.	77-92-9	17.5%
Acetic acid, 2-hydroxy-	No data available.	79-14-1	10%

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

4. First-aid measures

Description of necessary first-aid measures

General information:	Causes severe skin burns and eye damage. Get immediate medical advice/attention.
Inhalation:	Move to fresh air. Get medical attention if any discomfort continues.
Skin Contact:	Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Get medical attention promptly if symptoms occur after washing.
Eye contact:	Important! Immediately rinse with water for 60 minutes. Get medical attention immediately. Continue to rinse.
Ingestion:	Call a physician or poison control center immediately. Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
Personal Protection for First-aid Responders:	No data available.
Most important symptoms and effects, both acute and delayed Symptoms:	Symptoms may be delayed.
Hazards:	Causes severe skin burns and eye damage.

Indication of immediate medical attention and special treatment needed

Treatment:	IF exposed or concerned: Get medical advice/attention.
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5. Fire-fighting measures



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General Fire Hazards:	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.
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Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames.
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Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
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Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.
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Special protective equipment and precautions for firefighters

Special fire fighting procedures:	No unusual fire or explosion hazards noted.
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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:	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate closed spaces before entering them. Avoid breathing mists or vapors. Keep unauthorized personnel away.
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Accidental release measures: Methods and material for containment and cleaning up:	No data available. Stop leak if possible without any risk. Prevent runoff from entering drains, sewers, or streams. Dike far ahead of larger spills for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
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Environmental Precautions:	Do not contaminate water sources or sewer.
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7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	Adequate ventilation should be provided so that exposure limits are not exceeded. Eye wash facilities and emergency shower must be available when handling this product.
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Safe handling advice:	Avoid contact with eyes and prolonged or repeated contact
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with skin. Avoid inhalation of vapors and spray mists. Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Provide good ventilation.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store in original tightly closed container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Adequate ventilation should be provided so that exposure limits are not exceeded. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection

Hand Protection: Material: Suitable gloves can be recommended by the glove supplier.

Skin and Body Protection: Chemical resistant clothing

Respiratory Protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Observe good industrial hygiene practices. Wash at the end of each work shift and before eating, smoking and using the toilet.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance



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Physical state:	liquid
Form:	No data available.
Color:	Pale yellow
Odor:	Odorless
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	2.5
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Very Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Bulk density:	No data available.
Relative vapor density:	No data available.
 Particle characteristics	
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
 Surface charge/Zeta potential:	 No data available.
 Shape:	 No data available.
Crystallinity:	No data available.



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Surface treatment: No data available.

10. Stability and reactivity

Reactivity: Material is stable under normal conditions.

Chemical Stability: No data available.

Possibility of hazardous reactions: Stable; however, may decompose if heated.

Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.
Do not freeze.

Incompatible Materials: Avoid contact with oxidizers or reducing agents.

Hazardous Decomposition Products: By heating and fire, corrosive vapors/gases may be formed.

11. Toxicological information

Information on toxicological effects

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 20,400 mg/kg

Components:

1,2,3-Propanetricarboxylic acid,	LD 50 (Rat): 6,730 mg/kg
2-hydroxy-	LD 50 (Mouse): 5,400 mg/kg
Acetic acid, 2-hydroxy-	Experimental result, Key study
	LD 50 (Rat): 2,040 mg/kg
	Experimental result, Key study

Dermal

Product: ATEmix: 11,428.57 mg/kg

Components:

1,2,3-	LD 50 (Rat): > 2,000 mg/kg
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Propanetricarboxylic acid, 2-hydroxy- Experimental result, Key study
Acetic acid, 2-hydroxy- No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.
Acetic acid, 2-hydroxy- LC 50 (Rat, 4 h): 14 mg/l Aerosol; 2 = reliable with restrictions; Aerosol, Experimental result, Supporting study LC 50: > 5.2 mg/l LC 50: 7.7 - 14 mg/l LC 50: 3.6 mg/l

Repeated dose toxicity

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- LOAEL (Rat, Oral, 10 d): 8,000 mg/kg Oral Experimental result, Supporting study
NOAEL (Mouse, Oral, 10 d): 1,000 mg/kg Oral Experimental result, Supporting study
NOAEL (Rat(Female, Male), Oral, 5 d): 4,000 mg/kg Oral Experimental result, Supporting study
NOAEL (Rat, Oral, 10 d): 4,000 mg/kg Oral Experimental result, Supporting study
LOAEL (Mouse, Oral, 10 d): 2,000 mg/kg Oral Experimental result, Supporting study
Acetic acid, 2-hydroxy- NOAEL (Rat(Male), Oral, 90 - 131 d): 150 mg/kg Oral Experimental result, Key study
NOAEL (Rat(Female, Male), Oral, 90 - 131 d): 600 mg/kg Oral Experimental result, Key study
NOAEL (Rat(Female, Male), Oral, 90 - 131 d): 150 mg/kg Oral Experimental result, Key study
NOAEL (Rat(female), Oral, 90 - 131 d): 600 mg/kg Oral Experimental result, Key study
LOAEL (Rat(Female, Male), Oral, 90 - 131 d): 300 mg/kg Oral Experimental result, Key study

Skin Corrosion/Irritation

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.
Acetic acid, 2-hydroxy- No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- Not irritating in vivo Rabbit, 1 - 72 hrs: Expert judgment
Not irritating in vivo Rabbit, 1 - 72 hrs: Expert judgment
Acetic acid, 2-hydroxy- No data available.



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Respiratory or Skin Sensitization

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.

Acetic acid, 2-hydroxy- Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.

Acetic acid, 2-hydroxy- No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.

Acetic acid, 2-hydroxy- No data available.

In vivo

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.

Acetic acid, 2-hydroxy- No data available.

Reproductive toxicity

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.

Acetic acid, 2-hydroxy- No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:



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1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.
Acetic acid, 2-hydroxy- No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.
Acetic acid, 2-hydroxy- No data available.

Aspiration Hazard

Product: No data available.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.
Acetic acid, 2-hydroxy- No data available.

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: Not expected to be harmful to aquatic organisms.

Components:

1,2,3-Propanetricarboxylic acid, 2-hydroxy- LC 0 (Leuciscus idus, 48 h): 200 mg/l Experimental result, Key study
LC 100 (Leuciscus idus, 48 h): 800 mg/l Experimental result, Key study
LC 100 (Carassius auratus): 625 mg/l Estimated by calculation, Supporting study
LC 50 (Leuciscus idus, 48 h): 760 mg/l Experimental result, Key study
LC 50 (Leuciscus idus, 48 h): 440 mg/l Experimental result, Key study
Acetic acid, 2-hydroxy- LC 50 (Pimephales promelas, 96 h): 164 mg/l Experimental result, Key study
NOAEL (Pimephales promelas, 96 h): 130 mg/l Experimental result, Key study
LC 100 (Pimephales promelas, 96 h): 200 mg/l Experimental result, Key study
LC 0 (Pimephales promelas, 96 h): 130 mg/l Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Components:

1,2,3- LC 0 (Daphnia magna, 24 h): 1,206 mg/l Experimental result, Key study



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Propanetricarboxylic acid, 2-hydroxy-	LC 50 (Carcinus maenas, 48 h): 160 mg/l Experimental result, Supporting study EC 50 (Daphnia magna): 100 mg/l Experimental result, Supporting study EC 100 (Daphnia magna): 120 mg/l Experimental result, Supporting study
Acetic acid, 2-hydroxy-	LC 50 (Daphnia magna, 24 h): 1,535 mg/l Experimental result, Key study EC 50 (Daphnia magna, 24 h): 141 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 100 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): 141 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	No data available.
Acetic acid, 2-hydroxy-	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	No data available.
Acetic acid, 2-hydroxy-	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	No data available.
Acetic acid, 2-hydroxy-	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	No data available.
Acetic acid, 2-hydroxy-	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	No data available.
Acetic acid, 2-hydroxy-	No data available.



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Toxicity to microorganisms

Product: No data available.

Components:
1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.
Acetic acid, 2-hydroxy- No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:
1,2,3-Propanetricarboxylic acid, 2-hydroxy- 97 % Experimental result, Weight of Evidence study Detected in water.
85 % (14 d) Experimental result, Weight of Evidence study Detected in water.
100 % (19 d) Experimental result, Weight of Evidence study Detected in water.
Acetic acid, 2-hydroxy- 93 % Experimental result, Supporting study Sediment
78 % (11 d) Experimental result, Key study Detected in water.
96 % (28 d) Experimental result, Supporting study Sediment
89.6 % (7 d) Experimental result, Supporting study Detected in water.
10 % (1 d) Experimental result, Supporting study Sediment
50 % (2 d) Experimental result, Supporting study Sediment

BOD/COD Ratio

Product: No data available.

Components:
1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.
Acetic acid, 2-hydroxy- No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:
1,2,3-Propanetricarboxylic acid, 2-hydroxy- Bioconcentration Factor (BCF): 3.2 Estimated by calculation, Supporting study Aquatic sediment
Acetic acid, 2-hydroxy- No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:
1,2,3-Propanetricarboxylic acid, 2-hydroxy- No data available.
Acetic acid, 2-hydroxy- Log Kow: -1.11

Mobility in soil:



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Product	No data available.
Components:	
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	No data available.
Acetic acid, 2-hydroxy-	No data available.

Results of PBT and vPvB assessment:

Product	No data available.
Components:	
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	No data available.
Acetic acid, 2-hydroxy-	No data available.

Other adverse effects:

Other hazards	
Product:	No data available.

13. Disposal considerations

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	This material and/or its container must be disposed of as hazardous waste.
Contaminated Packaging:	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.

14. Transport information

DOTUN number or ID number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
Packing Group:	Not regulated.
Marine Pollutant:	Not regulated.
Limited quantity	Not regulated.
Excepted quantity	Not regulated.
 Special precautions for user:	 This material is exempted from dangerous goods labeling and documentation requirements per ADR 3.5.1.4, IATA 2.6.10 and IMDG 3.5.1.4



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IMDG

UN number or ID number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es)	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
EmS No.:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine Pollutant:	Not regulated.
Special precautions for user:	This material is exempted from dangerous goods labeling and documentation requirements per ADR 3.5.1.4, IATA 2.6.10 and IMDG 3.5.1.4

IATA

UN number or ID number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine pollutant:	Not regulated.
Special precautions for user:	This material is exempted from dangerous goods labeling and documentation requirements per ADR 3.5.1.4, IATA 2.6.10 and IMDG 3.5.1.4

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. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.



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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Skin Corrosion or Irritation, Serious eye damage or eye irritation

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

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.

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

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

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

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable



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Kyoto protocol
Not applicable

16. Other information, including date of preparation or last revision
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Issue Date: 01/14/2022

Version #: 1.2

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.