

# SAFETY DATA SHEET

. Identification			
oduct identifier			
Product No.:	Product name	e:	Common name(s), synonym(s)
660585	BD™ Deterge Concentrate	nt Solution	
Other means of identificat SDS number:	tion 088100200356	;	
Recommended use and re Recommended use: Sci	entific and Industria	I laboratory use	
Restrictions on use: No Manufacturer/Importer/Su		Information	
Manufacturer			
Company Name: Address:	Becton, Dickinson and Company - BD Biosciences 2350 Qume Drive		
Telephone: Fax:	95131 San Jose, CA USA 1 877 232 8995 or 1 800 424 9300		
Contact Person: E-mail:	Technical Serv ResearchAppli		n or ClinicalApplications@bd.com
Emergency teleph	none number: Cher	mTrec 1 800 424	1 9300
2. Hazard(s) identificatio	n		
Hazard Classification			
Health Hazards			
Skin Corrosion/Irritation Category 1A			
Serious Eye Damage/Eye Irritation Category 1			
Label Elements			
Hazard Symbol:			
	<b>^</b>		



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 thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response:	<ul> <li>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].</li> <li>P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P310: Immediately call a POISON CENTER/doctor.</li> <li>P321: Specific treatment (see on this label).</li> <li>P363: Wash contaminated clothing before reuse.</li> </ul>
Storage:	P405: Store locked up.
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:	None.

# 3. Composition/information on ingredients

### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Acetic acid, 2-hydroxy-		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

General information:	Causes severe skin burns and eye damage. Get immediate medical advice/attention.
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.



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.	
Most important symptoms/effects	s, 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.	
5. Fire-fighting measures		
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.	
Suitable (and unsuitable) extingu	ishing media	
Suitable extinguishing media:	Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO2) to extinguish flames.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical:	Fire or excessive heat may produce hazardous decomposition products.	
Special protective equipment and	d precautions for firefighters	
Special fire fighting procedures:	No unusual fire or explosion hazards noted.	
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.	

## 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.	
Methods and material for containment and cleaning up:	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.	
Environmental Precautions:	Do not contaminate water sources or sewer.	
7. Handling and storage		
Precautions for safe handling:	Avoid contact with eyes and prolonged or repeated contact with skin. Avoid inhalation of vapors and spray mists. Observe good industrial hygiene practices. Wear appropriate personal protective equipment. Provide good ventilation.	
Conditions for safe storage, including any incompatibilities:	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.	

### 8. Exposure controls/personal protection

### **Control Parameters**

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering<br/>ControlsAdequate ventilation should be provided so that exposure limits are not<br/>exceeded. Eye wash facilities and emergency shower must be available<br/>when handling this product.

### Individual protection measures, such as personal protective equipment

General information:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Eye/face protection:	Wear safety glasses with side shields (or goggles) and a face shield.
Skin Protection Hand Protection:	Suitable gloves can be recommended by the glove supplier.
Other:	Chemical resistant clothing
<b>Respiratory Protection:</b>	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

Appearance	
Physical state:	liquid
Form:	No data available.
Color:	Pale yellow
Odor:	Odorless
Odor threshold:	No data available.
pH:	2.5
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explo	sive 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:	Very Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	Product is not reactive under normal conditions and recommended use.
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 likely routes of exposure Ingestion: No data available.		
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Symptoms related to the physic Ingestion:	al, chemical and toxicological characteristics 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:	No data available.	
Dermal Product:	No data available.	
Inhalation		

Inhalation Product: No data available.

Repeated dose toxicity	
Product:	No data available.

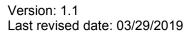
Specified substance(s):<br/>Acetic acid, 2-hydroxy-LOAEL (Rat(Female, Male), Oral, 90 - 131 d): 300 mg/kg Oral Experimental<br/>result, Key study<br/>NOAEL (Rat(Male), Oral, 90 - 131 d): 150 mg/kg Oral Experimental result,<br/>Key study<br/>NOAEL (Rat(Male), Inhalation): 0.23 mg/l Inhalation Experimental result,<br/>Supporting study<br/>NOAEL (Rat(Female), Oral, 90 - 131 d): 600 mg/kg Oral Experimental result,



	Key study NOAEL (Rat(Female, Male), Oral, 90 - 131 d): 600 mg/kg Oral Experimental result, Key study	
Skin Corrosion/Irritation Product:	No data available.	
Specified substance(s): Acetic acid, 2-hydroxy-	in vivo (Rabbit): Corrosive Experimental result, Key study	
Serious Eye Damage/Eye Irritatio Product:	n No data available.	
Respiratory or Skin Sensitization Product:	No data available.	
Specified substance(s): Acetic acid, 2-hydroxy-	Skin sensitization:, in vivo (Guinea pig): Non sensitising	
Carcinogenicity Product:	No data available.	
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.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	No data available.	
Specific Target Organ Toxicity - Single Exposure Product:No data available.		
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.	



Aspiration Hazard Product:	No data available.		
Other effects:	No data available.		
12. Ecological information			
Ecotoxicity:			
Acute hazards to the aquatic environment:			
Fish Product:	Not expected to be harmful to aquatic organisms.		
Aquatic Invertebrates Product:	No data available.		
Specified substance(s): Acetic acid, 2-hydroxy-	EC 50 (Daphnia magna, 48 h): 141 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		
Chronic hazards to the aquation	c environment:		
Fish Product:	No data available.		
Aquatic Invertebrates Product:	No data available.		
Toxicity to Aquatic Plants Product:	No data available.		
Persistence and Degradability			
Biodegradation Product:	No data available.		
Specified substance(s): Acetic acid, 2-hydroxy-	<ul> <li>78 % (11 d) Detected in water. Experimental result, Key study</li> <li>50 % (2 d) Sediment Experimental result, Supporting study</li> <li>89.6 % (7 d) Detected in water. Experimental result, Supporting study</li> <li>96 % (28 d) Sediment Experimental result, Supporting study</li> <li>10 % (1 d) Sediment Experimental result, Supporting study</li> </ul>		
BOD/COD Ratio			





Product:	No data available.		
Bioaccumulative potential Bioconcentration Factor (Be Product:	CF) No data available.		
Partition Coefficient n-octar Product:	nol / water (log Kow) No data available.		
Specified substance(s): Acetic acid, 2-hydroxy-	Log Kow: -1.11		
Mobility in soil:	No data available.		
Known or predicted distribution to environmental compartments			
Acetic acid, 2-hydroxy-	No data available.		
Other adverse effects:	No data available.		
13. Disposal considerations			
13. Disposal considerations General information:	Dispose of waste and residues in accordance with local authority requirements.		
General information:	requirements.		
General information: Disposal instructions:	requirements. This material and/or its container must be disposed of as hazardous waste.		
General information: Disposal instructions: Contaminated Packaging: 14. Transport information DOTUN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class:	requirements. This material and/or its container must be disposed of as hazardous waste. No data available. Not regulated. Not regulated. Not regulated.		
General information: Disposal instructions: Contaminated Packaging: 14. Transport information DOTUN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s):	requirements. This material and/or its container must be disposed of as hazardous waste. No data available. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated.		
General information: Disposal instructions: Contaminated Packaging: 14. Transport information DOTUN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group:	requirements. This material and/or its container must be disposed of as hazardous waste. No data available. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated.		
General information: Disposal instructions: Contaminated Packaging: 14. Transport information DOTUN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group: Marine Pollutant:	requirements. This material and/or its container must be disposed of as hazardous waste. No data available. Not regulated. Not regulated.		
General information: Disposal instructions: Contaminated Packaging: 14. Transport information DOTUN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class: Label(s): Packing Group:	requirements. This material and/or its container must be disposed of as hazardous waste. No data available. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated.		



### IMDG

UN 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	U
Marine Pollutant:	Not regulated.
Special precautions for user:	Not regulated.
ΙΑΤΑ	
UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	0
Class:	Not regulated.
Subsidiary risk:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	Not regulated.
Marine pollutant:	Not regulated.
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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):

None present or none present in regulated quantities.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

# Hazard categories

Immediate (Acute) Health Hazards Skin Corrosion or Irritation Serious eye damage or eye irritation

### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

### SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> Acetic acid, 2-hydroxyThreshold Planning Quantity 10000 lbs

### SARA 313 (TRI Reporting)

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.
- 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

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.

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

Issue Date: 03/29/2019

Version #: 1.1

### **Revision Information:**

Further Information: No data available.



### **Disclaimer:**

#### Disclaimer:

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