



Becton, Dickinson and Company BD, Franklin Lakes, NJ 07417 USA www.bd.com

# SAFETY DATA SHEET

#### 1. Identification

#### Product identifier

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

Other means of identification

**SDS number:** 088100200356

Recommended use and restriction on use

Recommended use: Scientific and Industrial laboratory use.

Restrictions on use: None known.

#### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: Becton, Dickinson and Company - BD Biosciences

Address: 2350 Qume Drive

95131 San Jose, CA USA

Telephone: 1 877 232 8995 or 1 800 424 9300

Fax:

Contact Person: Technical Services

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# 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

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

#### **Label Elements**

#### **Hazard Symbol:**



Signal Word: Danger

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

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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:** P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower].

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting.

P310: Immediately call a POISON CENTER/doctor.

P321: Specific treatment (see on this label).
P363: Wash contaminated clothing before reuse.

**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%

<sup>\*</sup> 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.

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**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, 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) extinguishing 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 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

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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

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

**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.

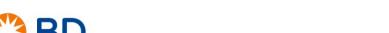
**Skin Protection** 

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

Other: Chemical resistant clothing

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

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**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:
Color:
No data available.
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 explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
No data available.
No data available.
Viscosity:
No data available.
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.

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**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 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:** No data available.

**Dermal** 

**Product:** No data available.

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Specified substance(s):

Acetic acid, 2-hydroxy- LOAEL (Rat(Female, Male), Oral, 90 - 131 d): 300 mg/kg Oral Experimental

result, Key study

NOAEL (Rat(Male), Oral, 90 - 131 d): 150 mg/kg Oral Experimental result,

Key study

NOAEL (Rat(Male), Inhalation): 0.23 mg/l Inhalation Experimental result,

Supporting study

NOAEL (Rat(Female), Oral, 90 - 131 d): 600 mg/kg Oral Experimental result,

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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 Irritation

**Product:** 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 - Repeated Exposure
Product:
No data available.

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**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 aquatic 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- 78 % (11 d) Detected in water. Experimental result, Key study

50 % (2 d) Sediment Experimental result, Supporting study

89.6 % (7 d) Detected in water. Experimental result, Supporting study

96 % (28 d) Sediment Experimental result, Supporting study 10 % (1 d) Sediment Experimental result, Supporting study

#### **BOD/COD Ratio**

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**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)
Product:
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

General information: Dispose of waste and residues in accordance with local authority

requirements.

**Disposal instructions:** This material and/or its container must be disposed of as hazardous waste.

Contaminated Packaging: No data available.

# 14. Transport information

**DOT**UN 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: Not regulated.

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**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** 

Marine Pollutant: Not regulated.

Special precautions for user: Not regulated.

**IATA** 

**UN 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: 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.

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# **SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

Acetic acid, 2-hydroxy- 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.

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