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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)
261197	BD BBL™ Nitrate A Reagent Droppers	No data available

Recommended restrictions

Recommended use: Laboratory Chemicals

Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions
Address: 7 Loveton Circle
Sparks, MD 21152
USA

Telephone: 1 844 823 5433
Fax: not available
Contact Person: Business Unit Product Stewardship Team
E-mail: IDS_SDS@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

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

Environmental Hazards

Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

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Label Elements

Hazard Symbol:



Signal Word:

Danger

Hazard Statement:

H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

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.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.

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].
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER/doctor.
P321: Specific treatment (see supplemental first aid instructions on this label).
P363: Wash contaminated clothing before reuse.

Storage:

P405: Store locked up.

Disposal:

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



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regulations.

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	No data available.	64-19-7	29.6%
Benzenesulfonic acid, 4-amino-	No data available.	121-57-3	0.8%

^{*} 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. May cause an allergic skin reaction.
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



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Symptoms:

Symptoms may be delayed.

Hazards:

Causes severe skin burns and eye damage. May cause an allergic skin reaction.

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.

Special hazards arising from the substance or mixture:

Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for fire-fighters

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.

**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.

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.

Safe handling advice: 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.

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

Chemical Identity	Type	Exposure Limit Values	Source
Acetic acid	AN ESL	10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	25 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	250 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	STEL	15 ppm	US. ACGIH Threshold Limit Values, as amended
	TWA	10 ppm	US. ACGIH Threshold Limit Values, as amended
	REL	10 ppm 25 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	15 ppm 37 mg/m ³	US. NIOSH: Pocket Guide to Chemical



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			Hazards, as amended
	IDLH	50 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	PEL	10 ppm 25 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	10 ppm 25 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	10 ppm 25 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	Ceiling	40 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA PEL	10 ppm 25 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	STEL	15 ppm 37 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	LEL	4.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

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.



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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	According to product specification.

Odor: Characteristic

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: Not applicable

Self Ignition Temperature: No data available.

Decomposition Temperature: No data available.

pH: 1.4 - 1.8

Viscosity

Dynamic viscosity: Not determined.

Kinematic viscosity: Not determined.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Completely 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.



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Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
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: 11,182.43 mg/kg
Components:	
Acetic acid	LD 50 (Rat): 3,310 - 3,530 mg/kg
Benzenesulfonic acid, 4-amino-	No data available.



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Dermal

Product: ATEmix: 3,581.08 mg/kg
Components:
Acetic acid LD 50 (Rabbit): 1,060 mg/kg

Benzenesulfonic acid, 4-amino- No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.
Components:
Acetic acid LC Lo (Rat): 16000 ppm Vapor; Vapor
Benzenesulfonic acid, 4-amino- No data available.

Repeated dose toxicity

Product: No data available.
Components:
Acetic acid No data available.
Benzenesulfonic acid, 4-amino- No data available.

Skin Corrosion/Irritation

Product: No data available.
Components:
Acetic acid No data available.
Benzenesulfonic acid, 4-amino- No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.
Components:
Acetic acid Irritating in vivo Rabbit, 24 - 72 hrs:
Category 1 in vivo Rabbit, 1 d:
Benzenesulfonic acid, 4-amino- Category 1 In vitro Chicken, egg: EU
Category 2A in vivo Rabbit, 24 - 72 hrs: OECD GHS
Category 2A in vivo Rabbit, 24 - 72 hrs: OECD GHS
Category 1 In vitro Chicken, egg: EU
Category 1 In vitro Chicken, egg: EU
Category 2A in vivo Rabbit, 24 - 72 hrs: OECD GHS
Category 2A in vivo Rabbit, 24 - 72 hrs: OECD GHS

Respiratory or Skin Sensitization

Product: No data available.
Components:
Acetic acid No data available.
Benzenesulfonic acid, 4-amino- No data available.

Carcinogenicity

Product: No data available.
Components:



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Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

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:

Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

In vivo

Product: No data available.

Components:

Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

Reproductive toxicity

Product: No data available.

Components:

Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

Aspiration Hazard

Product: No data available.



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Components:

Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	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:

Acetic acid	NOAEL (Danio rerio, 96 h): 300.82 mg/l Experimental result, Supporting study LC 100 (Oncorhynchus mykiss, 24 h): > 150 mg/l Experimental result, Supporting study LC 0 (Oncorhynchus mykiss, 24 h): 56 mg/l Experimental result, Supporting study LC 50 (Oncorhynchus mykiss, 24 h): > 150 mg/l Experimental result, Supporting study LC 0 (Oncorhynchus mykiss, 72 h): 63.4 mg/l Experimental result, Supporting study
Benzenesulfonic acid, 4-amino-	NOAEL (Danio rerio, 96 h): 100 mg/l Experimental result, Key study LC 50 (Danio rerio, 96 h): > 100 mg/l Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Components:

Acetic acid	EC 50 (Daphnia magna, 48 h): 65,000 µg/l
Benzenesulfonic acid, 4-amino-	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Acetic acid	No data available.
Benzenesulfonic acid, 4-	No data available.



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amino-

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Acetic acid	96 % (20 d) Experimental result, Key study Detected in water.
Benzenesulfonic acid, 4-amino-	100 % (40 h) Experimental result, Weight of Evidence study Detected in water. 100 % (72 h) Experimental result, Weight of Evidence study Detected in water. 94.7 % (40 h) Experimental result, Weight of Evidence study Detected in water.

BOD/COD Ratio

Product:	No data available.
Components:	
Acetic acid	No data available.
Benzenesulfonic acid, 4-amino-	No data available.



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Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Acetic acid No data available.

Benzenesulfonic acid, 4-amino- No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Components:

Acetic acid No data available.

Benzenesulfonic acid, 4-amino- No data available.

Mobility in soil:

Product No data available.

Components:

Acetic acid No data available.

Benzenesulfonic acid, 4-amino- No data available.

Results of PBT and vPvB assessment:

Product No data available.

Components:

Acetic acid No data available.

Benzenesulfonic acid, 4-amino- 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



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characteristics at time of disposal.

14. Transport information

DOT

UN number or ID number:	UN 2790
UN Proper Shipping Name:	ACETIC ACID SOLUTION
Transport Hazard Class(es)	
Class:	8
Label(s):	8
Packing Group:	III
Marine Pollutant:	No
Special precautions for user:	This package conforms to 49 CFR 173.4 This package conforms to 49 CFR 173.4

IMDG

UN number or ID number:	UN 2790
UN Proper Shipping Name:	ACETIC ACID SOLUTION
Transport Hazard Class(es)	
Class:	8
Subsidiary risk:	8
EmS No.:	F-A, S-B
Packing Group:	III
Environmental Hazards	
Marine Pollutant:	No
Special precautions for user:	EQEQ

IATA

UN number or ID number:	UN 2790
Proper Shipping Name:	ACETIC ACID SOLUTION
Transport Hazard Class(es):	
Class:	8
Subsidiary risk:	8
Packing Group:	III
Environmental Hazards	
Marine pollutant:	No
Special precautions for user:	EQEQ

15. Regulatory information

US Federal Regulations
SDS_US



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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):

Chemical Identity

Acetic acid

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization

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. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

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)

Chemical Identity

Acetic acid

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

Chemical Identity

Acetic acid

US. Massachusetts RTK - Substance List

Chemical Identity

Acetic acid



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US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Acetic acid

US. Rhode Island RTK

Chemical Identity

Acetic acid

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16. Other information, including date of preparation or last revision
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Issue Date: 08/24/2022

Version #: 2.3

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.