

Last revised date: 09/20/2024

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

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

| Product No.: | Product name: | Common name(s), synonym(s) |
|--------------|--------------------------------|--|
| 364951 | TUBE URIN PLC 13X75 4.0 C&S GR | BD Vacutainer® C&S Preservative Urine Tube |

Recommended restrictions

Recommended use: Scientific and industrial laboratory use. For In Vitro Diagnostic Use.

Restrictions on use: For External Use Only

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 1 Becton Drive

Franklin Lakes, NJ 07417

USA

Telephone: 1 800 631 0174
Fax: 1 201 847 4866
Contact Person: Technical Services

E-mail: productcomplaints@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

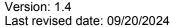
Health Hazards

Toxic to reproduction Category 1B

Label Elements

Hazard Symbol:

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Signal Word: Danger

Hazard Statement: H360FD: May damage fertility. May damage the unborn child.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P280: Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P308+P313: IF exposed or concerned: Get medical advice/attention. Response:

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

Mixtures

| Chemical Identity | Common name and synonyms | CAS number | Content in percent (%)* |
|-----------------------|--------------------------------|------------|-------------------------|
| Borax (B4Na2O7.10H2O) | No data available. | 1303-96-4 | 33.89% |
| Boric acid | No data available. | 11113-50-1 | 22.59% |

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

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4. First-aid measures

Description of first aid measures

General information: May damage fertility. May damage the unborn child.

Inhalation: Get medical attention immediately. Under normal conditions of

intended use, this material is not expected to be an inhalation

hazard.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and

flush skin and hair with running water. If skin irritation or an allergic skin reaction develops, get medical attention. Due to the

small packaging the risk of skin contact is minimal.

Eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes

and see a doctor. Due to the small packaging the risk of eye

contact is minimal.

Ingestion: If swallowed, rinse mouth with water (only if the person is

conscious). Call a physician or poison control center immediately.

Due to the small packaging the risk of ingestion is minimal.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No specific symptoms noted.

Hazards: Low hazard for recommended handling by trained personnel.

Under normal conditions of intended use, this material does not pose a risk to health. Prolonged or repeated exposure may cause: May damage fertility. May damage the unborn

child.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical advice/attention if you feel unwell.

5. Fire-fighting measures

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General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide. Use fire-

extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread

fire.

Special hazards arising from the

substance or mixture:

None known.

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:

No specific precautions due to the small quantities handled.

Use fire-extinguishing media appropriate for surrounding

materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures:

Use personal protective equipment. Avoid contact with spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Accidental release measures: No data available.

Methods and material for containment and cleaning up:

Sweep or scoop up and remove. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing.

Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Handling

Technical measures: No data available.

Local/Total ventilation:No data available.

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Safe handling advice: Low hazard for recommended handling by trained

personnel. Observe good laboratory hygiene practices.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store in a cool, dry place out of direct sunlight. Store in

closed original container at temperatures between 4°C and

25°

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Туре | Exposure Limit Values | Source |
|---|---------|--------------------------|-----------|
| Borax (B4Na2O7.10H2O) | TWA | 10 mg/m3 | OSHA Z1A |
| | TWA | 10 mg/m3 | TN OEL |
| Borax (B4Na2O7.10H2O) - Particulate. | ST ESL | 50 μg/m3 | TX ESL |
| | AN ESL | 5 μg/m3 | TX ESL |
| Borax (B4Na2O7.10H2O) | TWA PEL | 5 mg/m3 | US CA OEL |
| Borax (B4Na2O7.10H2O) - Inhalable fraction. | TWA | 2 mg/m3 | ACGIH |
| | STEL | 6 mg/m3 | ACGIH |
| Borax (B4Na2O7.10H2O) | REL | 5 mg/m3 | NIOSH |
| Boric acid - Inhalable fraction. | TWA | 2 mg/m3 | ACGIH |
| | STEL | 6 mg/m3 | ACGIH |

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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 Low hazard for recommended handling by trained

personnel. Observe good industrial hygiene practices.

Individual protection measures, such as personal protective equipment

Eye/face protection: It is a good industrial hygiene practice to minimize eye

contact. Wear approved chemical safety glasses or goggles where eye exposure is reasonably probable.

Skin Protection

Hand Protection: Material: Use suitable protective gloves if risk of skin

contact.

Skin and Body Protection: No data available.

Respiratory Protection: Not relevant, due to the form of the product. None

should be needed.

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Hygiene measures: Always observe good personal hygiene measures,

such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove

contaminants.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: Solid
Form: Powder
Color: White
Odor: Odorless

Odor Threshold:

Melting Point:

No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:

Explosive limit - lower:

No data available.

No data available.

No data available.

No data available.

Self-ignition:

No data available.

Decomposition Temperature:

No data available.

No data available.

Viscosity

Dynamic viscosity: Not determined.

Kinematic viscosity: No data available.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: No data available.

Solubility (other): No data available.

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Partition coefficient (n-octanol/water):

No data available.

No data available.

Relative density:

No data available.

No data available.

No data available.

Bulk density:

No data available.

No data available.

No data available.

No data available.

Other information No data available

10. Stability and reactivity

Reactivity: Material is stable under normal conditions.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: None under normal conditions.

Conditions to avoid: None known. None under normal conditions.

Incompatible Materials: No common materials and contaminants with which the

material may reasonably come into contact.

Hazardous Decomposition

Products:

Not likely, due to the form of the product.

11. Toxicological information

General information: May cause reproductive effects.

Information on likely routes of exposure

Inhalation: Under normal conditions of intended use, this material is not expected to

be an inhalation hazard.

Skin Contact: Due to the small packaging the risk of skin contact is minimal.

Eye contact: Due to the small packaging the risk of eye contact is minimal.

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Ingestion: Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific symptoms noted.

Skin Contact: No specific symptoms noted.

Eye contact: No specific symptoms noted.

Ingestion: No specific symptoms noted.

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Dermal

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Inhalation

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Repeated dose toxicity

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available.
Boric acid No data available.

Skin Corrosion/Irritation

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

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Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Respiratory or Skin Sensitization

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Carcinogenicity

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid 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 1910.1001-1053), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available.
Boric acid No data available.

In vivo

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Reproductive toxicity

Product: Contains a substance/a group of substances with possible risk of harm to

the unborn child and with possible risk of impaired fertility.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Specific Target Organ Toxicity - Single Exposure

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Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Aspiration Hazard

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid 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: No data available.

Components:

Borax No data available.

(B4Na2O7.10H2O)

Boric acid No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Borax No data available.

(B4Na2O7.10H2O)

Boric acid No data available.

Toxicity to Aquatic Plants

Product: No data available.

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Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Borax No data available.

(B4Na2O7.10H2O)

Boric acid No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Borax No data available.

(B4Na2O7.10H2O)

Boric acid No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

BOD/COD Ratio

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

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Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Mobility in soil:

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Results of PBT and vPvB assessment:

Product: No data available.

Components:

Borax (B4Na2O7.10H2O) No data available. Boric acid No data available.

Other adverse effects:

Other hazards

Product: No data available.

13. Disposal considerations

Disposal methods: Dispose of waste and residues in accordance with local authority

requirements.

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.

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14. Transport information

Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

IATA

Not Regulated.

IMDG

Not Regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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) Proposed Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), 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.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Reproductive toxicity

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)

None present or none present in regulated quantities.

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US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

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

Version #: 1.4

Generation date: 09/20/2024

Date of first report

version:

09/09/2016

Abbreviations and acronyms:

ACGIH: US. ACGIH Threshold Limit Values, as amended

NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards, as amended

TN OEL: US. Tennessee. OELs. Occupational Exposure Limits, Table

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Z1A, as amended

TX ESL: US. Texas. Effects Screening Levels (Texas Commission on

Environmental Quality), as amended

US CA OEL: US. California Code of Regulations, Title 8, Section 5155.

Airborne Contaminants, as amended

Z1A: US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

ACGIH / STEL: Short Term Exposure Limit (STEL):

ACGIH / TWA: Time Weighted Average (TWA):

NIOSH/GUIDE / REL: Recommended exposure limit (REL):

TN OEL / TWA: Time Weighted Average (TWA):

TX ESL / ST ESL: Short-Term ESL:

TX ESL / AN ESL: Annual ESL:

US CA OEL / TWA PEL: Time Weighted Average (TWA) Permissible Exposure Limit

(PEL)

Z1A / TWA: Time Weighted Average (TWA):

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test

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population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR -(Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Source of information: European Chemicals Agency (ECHA): Information on Chemicals.

Further Information: No data available.

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