Becton, Dickinson and Company
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)
212185	Bottle Marine Agar 2216 500G	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

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

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.
Hazard Statement: Not applicable
Precautionary Statements Not applicable

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 (%)*
Calcium chloride (CaCl2)	No data available.	10043-52-4	3.2668%
FERRIC CITRATE	No data available.	2338-05-8	0.1815%
Boric acid (H3BO3)	No data available.	10043-35-3	0.0399%
Sodium fluoride (NaF)	No data available.	7681-49-4	0.0044%

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

4. First-aid measures

Description of first aid measures

General information: Get medical attention if symptoms occur.

Inhalation: Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

Skin Contact: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

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

Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion:	Get medical attention if symptoms occur.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	No specific symptoms noted.
Hazards:	No data available.

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 spray to keep fire-exposed containers cool.

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.

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

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:	No special precautionary health measures should be needed under anticipated conditions of use.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	No specific clean-up procedure noted.
Environmental Precautions:	Avoid release to the environment.

7. Handling and storage

Handling

Technical measures:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.
Contact avoidance measures:	No data available.

Storage

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

Safe storage conditions: Store in a cool, dry place. Keep container tightly closed.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control ParametersOccupational Exposure Limits

Components	Type	Form of exposure	Exposure Limit Values		Source
FERRIC CITRATE	REL	- as Fe		1 mg/m3	NIOSH (2005)
	TWA	- as Fe		1 mg/m3	OSHA Z1A (1989)
	TWA	- as Fe		1 mg/m3	TN OEL (06 2008)
	AN ESL			1 µg/m3	TX ESL (12 2010)
	ST ESL			10 µg/m3	TX ESL (12 2010)
	TWA PEL	- as Fe		1 mg/m3	US CA OEL (08 2010)
	TWA	- as Fe		1 mg/m3	ACGIH (12 2010)
Boric acid (H3BO3)	ST ESL			10 µg/m3	TX ESL (12 2010)
	AN ESL			1 µg/m3	TX ESL (12 2010)
	STEL	Inhalable fraction.		6 mg/m3	ACGIH (02 2012)
	TWA	Inhalable fraction.		2 mg/m3	ACGIH (02 2012)
Sodium fluoride (NaF)	TWA	- as F		2.5 mg/m3	OSHA Z1A (1989)
	TWA	- as F		2.5	ACGIH (12 2010)

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

				mg/m3	
	REL	- as F		2.5 mg/m3	NIOSH (2005)
	PEL	- as F		2.5 mg/m3	OSHA Z1 (02 2006)
	TWA	Dust.		2.5 mg/m3	OSHA Z2 (02 2006)
	IDLH			250 mg/m3	NIOSH IDLH (10 2017)
	IDLH			250 mg/m3	NIOSH IDLH (10 2017)

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

Chemical name	**Parameters / Sampling Time**	**Exposure Limit Values**	**Source**
Sodium fluoride (NaF)	Fluoride Sampling time: Prior to shift.	2 mg/l (Urine)	ACGIH BEI
	Fluoride Sampling time: End of shift.	3 mg/l (Urine)	ACGIH BEI

Appropriate Engineering Controls No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment (PPE)

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

Skin Protection

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

Hand Protection:	Material: Chemical resistant gloves
Skin and Body Protection:	Wear a lab coat or similar protective clothing.
Respiratory Protection:	Respiratory protection not required.
Hygiene measures:	Observe good industrial hygiene practices.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	solid
Form:	solid
Color:	According to product specification.
Odor:	Characteristic
Odor Threshold:	No data available.
Melting 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.

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

Flash Point:	Not applicable
Auto-ignition temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.
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.
Vapor density (air=1):	No data available.
Particle characteristics	
Particle Size:	No data available.
Particle Size Distribution:	No data available.
Specific surface area:	No data available.

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

Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

Other information

Metal Corrosion:	Non-corrosive per US Department of Transportation testing protocol.

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Not known.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Strong oxidizers.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

General information: No information about adverse effects due to exposure.

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:	Negligible irritation to skin at ambient temperatures.
Eye contact:	Do not get in eyes.
Ingestion:	In the event of inhalation (ingestion), seek medical attention immediately

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

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix, 11,147.37 mg/kg
Components:	
Calcium chloride (CaCl2)	LD 50, Rabbit, 1,000 mg/kg, 1 = reliable without restrictions, Supporting study
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Dermal

Product:	Not classified for acute toxicity based on available data.
Components:	
Calcium chloride (CaCl2)	LD 50, Rabbit, > 5,000 mg/kg
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	LD 50, Rabbit, > 2,000 mg/kg
Sodium fluoride (NaF)	No data available.

Inhalation

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.

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

Sodium fluoride (NaF)	No data available.

Repeated dose toxicity

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	LOAEL Mouse, Female, Male, Oral, 13 - 16 Weeks, > 811 mg/kg, Experimental result, Supporting study Oral NOAEL Mouse, Female, Male, Oral, 13 - 16 Weeks, 194 mg/kg, Experimental result, Supporting study Oral NOAEL Mouse, Female, Male, Oral, 13 - 16 Weeks, 1,200 ppm(m), Experimental result, Supporting study Oral NOAEL Mouse, Female, Male, Oral, 13 - 16 Weeks, 34 mg/kg, Experimental result, Supporting study Oral
Sodium fluoride (NaF)	No data available.

Skin Corrosion/Irritation

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	Irritating

Serious Eye Damage/Eye Irritation

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.

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

Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	Possibly Irritating

Respiratory or Skin Sensitization

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Carcinogenicity

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	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

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

In vitro

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

In vivo

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.

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

Sodium fluoride (NaF)	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Information on health hazards

Other hazards

Product:	No data available.

12. Ecological information

General information: This material has not been tested for environmental effects.

Ecotoxicity:

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.

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

FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Acute hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	LC 50, Lepomis macrochirus, 96 h, 9,500 - 11,300 mg/lStatic, Experimental result, Supporting study LC 50, Lepomis macrochirus, 96 h, 10,650 mg/lStatic, Not specified, Supporting study LC 50, Pimephales promelas, 96 h, 4,630 mg/lStatic, Experimental result, Key study LC 0, Sander lucioperca, 18 h, >= 4,160 mg/lStatic, Experimental result, Not specified LC 50, Pimephales promelas, 48 h, > 6,560 mg/lStatic, Experimental result, Key study
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	LC 50, Pimephales promelas, 96 h, 79.7 mg/lStatic, Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study LC 50, Limanda limanda, 96 h, 74 mg/lflow-through, Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study
Sodium fluoride (NaF)	LC 50, Various, 96 h, 108 mg/l, Other, Weight of Evidence study LC 50, Fathead minnow (Pimephales promelas), 96 h, 124 - 194 mg/lStatic, Mortality LC 50, Various, 96 h, 340 mg/l, Other, Weight of Evidence study LC 50, Various, 48 h, 299 mg/l, Other, Weight of Evidence study

Aquatic Invertebrates

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	NOAEL, Litopenaeus vannemei, 96 h, 103 mg/lStatic, Experimental result, Weight of Evidence study experimental result LC 50, Litopenaeus vannemei, 96 h, 130 mg/lStatic, Experimental result, Weight of Evidence study experimental result
Sodium fluoride (NaF)	LC 50, Water flea (Daphnia magna), 48 h, 335 mg/lStatic, Intoxication

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

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

BOD/COD Ratio

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Partition Coefficient n-octanol / water (log Kow)

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

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Mobility in soil:

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Results of PBT and vPvB assessment:

Product:	No data available.
Components:	
Calcium chloride (CaCl2)	No data available.
FERRIC CITRATE	No data available.
Boric acid (H3BO3)	No data available.
Sodium fluoride (NaF)	No data available.

Other adverse effects:

Other hazards
Product: The dangerous properties of the product cannot be evaluated from the available data. Avoid release to the environment.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority requirements. The solid and liquid waste should be handled according to their nature and degree of hazardousness.

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.

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

14. Transport information

DOT
Not Regulated.

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) 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 1910.1001-1053), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

RCRA HAZARDOUS WASTE NO. D008

SODIUM FLUORIDE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Hazard categories

Not classified

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

Chemical Identity	% by weight
LEAD COMPOUNDS	0%

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

SODIUM FLUORIDE

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, barium calcium cesium lead samarium strontium bromide chloride fluoride iodide europium doped which is [are] known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov.

International regulations

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

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 #:	1.3
Revision Date:	06/04/2025
Date of first report version:	04/18/2014

Abbreviations and acronyms:

ACGIH:	US. ACGIH Threshold Limit Values, as amended
ACGIH BEI:	US. ACGIH. BEIs. Biological Exposure Indices, as amended
NIOSH IDLH:	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
NIOSH/GUIDE:	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
OSHA_TRANS:	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
OSHA/Z2:	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
TN OEL:	US. Tennessee. OELs. Occupational Exposure Limits, Table 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):

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

ACGIH / TWA:	Time Weighted Average (TWA):
NIOSH IDLH / IDLH:	Immediately dangerous to life or health (IDLH) concentration:
NIOSH/GUIDE / REL:	Recommended exposure limit (REL):
OSHA_TRANS / PEL:	Permissible exposure limit:
OSHA/Z2 / TWA:	Time Weighted Average (TWA):
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 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

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

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