



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

# SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations  
(SOR/2015-17)

## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
212542	BOTTLE GRAM IODINE STABILIZED 250ML	No data available

### Recommended use of the chemical and restrictions on use

**Recommended use:** Laboratory Chemicals

**Recommended restrictions:** 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 identification

### Hazard Classification

#### Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1



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

Respiratory sensitizer	Category 1B
Skin sensitizer	Category 1B
Specific Target Organ Toxicity - Repeated Exposure	Category 1

**Environmental Hazards**

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

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317: May cause an allergic skin reaction.  
H372: Causes damage to organs through prolonged or repeated exposure.  
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.  
P270: Do not eat, drink or smoke when using this product.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P284: [In case of inadequate ventilation] wear respiratory protection.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** P363: Wash contaminated clothing before reuse.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER/doctor.  
P314: Get medical advice/attention if you feel unwell.  
P362: Take off contaminated clothing.

**Storage:** P405: Store locked up.  
P233: Keep container tightly closed.  
P403: Store in a well-ventilated place.

**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 (%) <sup>*</sup>
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.	25655-41-8	5 - 10%
Potassium iodide (KI)	No data available.	7681-11-0	1 - 5%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.



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

Version: 2.5  
Last revised date: 03/18/2024

---

#### 4. First-aid measures

##### Description of first aid measures

<b>General information:</b>	If medical advice is needed, have product container or label at hand. Get immediate medical advice/attention.
<b>Inhalation:</b>	Get medical attention if any discomfort continues. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.
<b>Skin Contact:</b>	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.
<b>Eye contact:</b>	Important! Immediately rinse with water for 60 minutes. Get medical attention immediately.
<b>Ingestion:</b>	If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.
<b>Personal Protection for First-aid Responders:</b>	No data available.

##### Most important symptoms and effects, both acute and delayed

**Symptoms:** Symptoms may be delayed.



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

---

**Hazards:** Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes damage to organs through prolonged or repeated exposure.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Get immediate medical advice/attention. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

**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:** 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:** 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.



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

Version: 2.5  
Last revised date: 03/18/2024

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:**

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.

**Accidental release measures:**

No data available.

**Methods and material for  
containment and cleaning up:**

Stop leak if possible without any risk. Absorb spillage with suitable absorbent material. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

**Environmental Precautions:**

Do not release into the environment. Environmental manager must be informed of all major spillages.

## 7. Handling and storage

### Handling



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

**Technical measures:** No data available.

**Local/Total ventilation:** No data available.

**Safe handling advice:** Wash at the end of each work shift and before eating, smoking and using the toilet. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes and avoid contact with skin and clothing. Wash promptly with soap and water if skin becomes contaminated. 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**

**Safe storage conditions:** Store in tightly closed original container in a dry, cool and well-ventilated place.

**Safe packaging materials:** No data available.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
-------------------	------	-----------------------	--------



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

---

Potassium iodide (KI) - Inhalable fraction and vapor.	TWA	0.01 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Potassium iodide (KI) - Inhalable fraction. - as Iodine (I)			0.01 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Potassium iodide (KI) - Inhalable fraction. - as Iodine (I)	TWA		0.01 mg/m3	US. ACGIH Threshold Limit 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 whenever the material is heated or mists are generated.

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

#### Eye/face protection:

Chemical goggles and face shield are recommended.

#### Hand Protection:

Material: Chemical resistant gloves

#### Other:

Wear a lab coat or similar protective clothing.

#### Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.





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

Version: 2.5  
Last revised date: 03/18/2024

**Hygiene measures:**

Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin. Do not breathe dust/fume/gas/mist/vapors/spray.

**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:** No data available.

**Decomposition Temperature:** No data available.



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

Version: 2.5  
Last revised date: 03/18/2024

---

**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.

**Relative vapor density:** 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.



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

---

<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	Stable; however, may decompose if heated. None under normal conditions.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	By heating and fire, harmful vapors/gases may be formed.

## 11. Toxicological information

**General information:** Can cause internal organ effects.

### Information on likely routes of exposure

<b>Inhalation:</b>	May cause respiratory allergy.
<b>Skin Contact:</b>	Causes skin irritation. Prolonged or repeated contact may cause skin sensitization in susceptible individuals.
<b>Eye contact:</b>	May cause chemical eye burns.
<b>Ingestion:</b>	Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

### Acute toxicity (list all possible routes of exposure)

#### Oral

<b>Product:</b>	ATEmix, 26,315.79 mg/kg
<b>Components:</b>	
2-Pyrrolidinone, 1-ethenyl-, homopolymer,	No data available.
compd. with iodine	
Potassium iodide (KI)	No data available.



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

---

**Dermal**

**Product:** No data available.

**Components:**  
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine  
Potassium iodide (KI) No data available.

**Inhalation**

**Product:** No data available.

**Components:**  
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine  
Potassium iodide (KI) No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Components:**  
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine  
Potassium iodide (KI) No data available.

**Skin Corrosion/Irritation**

**Product:** Irritant

**Components:**  
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine  
Potassium iodide (KI) No data available.

**Serious Eye Damage/Eye Irritation**

**Product:** Risk of serious damage to eyes.

**Components:**  
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine  
Potassium iodide (KI) No data available.

**Respiratory or Skin Sensitization**

**Product:** Skin and respiratory sensitizer

**Components:**  
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine  
Potassium iodide (KI) No data available.

**Carcinogenicity**

**Product:** No data available.



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

---

**Components:**

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine      No data available.  
Potassium iodide (KI)      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

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended**

No carcinogens present or none present in regulated quantities

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended**

No carcinogens present or none present in regulated quantities

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Components:**

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine      No data available.  
Potassium iodide (KI)      No data available.

**In vivo**

**Product:** No data available.

**Components:**

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine      No data available.  
Potassium iodide (KI)      No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine      No data available.  
Potassium iodide (KI)      No data available.



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

---

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer,  
compd. with iodine

Potassium iodide (KI) No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Category 1

**Components:**

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer,  
compd. with iodine

Potassium iodide (KI) No data available.

**Aspiration Hazard**

**Product:** No data available.

**Components:**

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer,  
compd. with iodine

Potassium iodide (KI) No data available.

**Information on health hazards**

**Other hazards**

**Product:** No data available.

**12. Ecological information**

**General information:** Harmful to aquatic life.

**Ecotoxicity:**

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**

2-Pyrrolidinone, 1- No data available.

ethenyl-, homopolymer,  
compd. with iodine

Potassium iodide (KI) No data available.

**Toxicity to microorganisms**

**Product:** No data available.



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

**Components:**

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	No data available.

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** Harmful to aquatic organisms.

**Components:**

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	NOAEL, Danio rerio, 7 d, 100 mg/lStatic, Experimental result, Key study LC 0, Danio rerio, 96 h, 100 mg/lStatic, Experimental result, Key study LC 50, Oncorhynchus mykiss, 96 h, 3,780 mg/lStatic, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50, Oncorhynchus mykiss, 96 h, 896 mg/lStatic, Experimental result, Supporting study LC 50, Oncorhynchus mykiss, 96 h, 2,190 mg/lStatic, Experimental result, Supporting study

**Aquatic Invertebrates**

**Product:** Harmful to aquatic organisms.

**Components:**

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	LC 50, Zebra mussel (Dreissena polymorpha), 24 h, 220 - 313 mg/lStatic, Mortality

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	No data available.



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

---

## Persistence and Degradability

### Biodegradation

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	50 %, 720 h, Estimated by calculation, Key study Soil 50 %, 360 h, Estimated by calculation, Key study Detected in water. 50 %, 3,240 h, Estimated by calculation, Key study Sediment 50 %, 360 h, Estimated by calculation, Key study Sediment

### BOD/COD Ratio

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	Various, 2.27, Estimated by calculation, Key study Aquatic sediment

#### Partition Coefficient n-octanol / water (log Kow)

<b>Product:</b>	, No data available.
<b>Components:</b>	
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	No data available.

### Mobility in soil:

<b>Product:</b>	No data available.
<b>Components:</b>	
2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	No data available.





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

---

**Results of PBT and vPvB assessment:**

<b>Product:</b>	No data available.
<b>Components:</b> 2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with iodine	No data available.
Potassium iodide (KI)	No data available.

**Other adverse effects:**

<b>Other hazards</b> <b>Product:</b>	Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.
---	--

**13. Disposal considerations**

<b>General information:</b>	Dispose of waste and residues in accordance with local authority requirements.
-----------------------------	--

<b>Disposal methods:</b>	Discharge, treatment, or disposal may be subject to national, state, or local laws.
--------------------------	---

Since emptied containers retain product residue, follow label warnings even after container is emptied.

<b>Contaminated Packaging:</b>	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.
--------------------------------	--

**14. Transport information**



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

---

**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.

<b>15. Regulatory information</b>
-----------------------------------

**Canada Federal Regulations**

**List of Toxic Substances (CEPA, Schedule 1)**

Not Regulated

**Export Control List (CEPA 1999, Schedule 3)**

Not Regulated

**National Pollutant Release Inventory (NPRI)**

**Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements**

NPRI PT5                      Not Regulated

**Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)**

NPRI                              Not Regulated



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

Version: 2.5  
Last revised date: 03/18/2024

---

**Greenhouse Gases**

Not Regulated

**Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements**

Not Regulated

**Controlled Drugs and Substances Act**

CA CDSI	Not Regulated
CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated

**Precursor Control Regulations**

Not Regulated

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

**Date of first report version:** 04/18/2014

**Generation date:** 03/18/2024



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

**Version #:** 2.5

**Abbreviations and acronyms:**

ACGIH: US. ACGIH Threshold Limit Values, as amended  
CAD MB OEL: Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended  
CAD ON OEL: Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended  
ACGIH / TWA: Time Weighted Average (TWA):  
CAD MB OEL / TWA: Time Weighted Average (TWA):  
CAD ON OEL / TWA: Time Weighted Average (TWA):

AIC - 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

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

**Further Information:** No data available.



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

Version: 2.5  
Last revised date: 03/18/2024

---

**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.