



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 identifier

Product No.:	Product name:	Common name(s), synonym(s)
212515	BD BBL™ TB Auramine-Rhodamine T	No data available

Recommended restrictions

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

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: Tech Services

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 3

Health Hazards

Skin Corrosion/Irritation Category 1B

Serious Eye Damage/Eye Irritation Category 1

Germ Cell Mutagenicity Category 2

Carcinogenicity Category 2

Specific Target Organ Toxicity - Repeated Exposure Category 2

Label Elements

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

Hazard Symbol:



Signal Word: Danger

Hazard Statement: H226: Flammable liquid and vapor.
H314: Causes severe skin burns and eye damage.
H341: Suspected of causing genetic defects.
H351: Suspected of causing cancer.
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash thoroughly after handling.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.

Response: P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER/doctor.
P321: Specific treatment (see on this label).
P363: Wash contaminated clothing before reuse.
P370+P378: In case of fire: Use water spray, fog, CO2, dry



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

chemical, or alcohol resistant foam.
P314: Get medical advice/attention if you feel unwell.

Storage: P403: Store in a well-ventilated place.
P235: Keep cool.
P405: Store locked up.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification:

FK: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.
Spark: Sparks may ignite liquid and vapor.
H241: May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
1,2,3-Propanetriol	No data available.	56-81-5	54.64%
2-Propanol	No data available.	67-63-0	12.75%
Phenol	No data available.	108-95-2	7.29%
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.	2465-27-2	1.09%

^{*} 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. Suspected of causing genetic defects. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.



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

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 Symptoms:	Symptoms may be delayed.
Hazards:	Causes severe skin burns and eye damage. Suspected of causing genetic defects. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

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 firefighters

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:

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.

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



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

**Control Parameters
Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values		Source
1,2,3-Propanetriol - Total dust.	TWA	10 mg/m3		US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
1,2,3-Propanetriol - Respirable fraction.	TWA	5 mg/m3		US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
1,2,3-Propanetriol - Respirable fraction and dust or fume.	TWA	5 mg/m3		US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
1,2,3-Propanetriol - Total dust and mist.	TWA	10 mg/m3		US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
1,2,3-Propanetriol	ST ESL	50 µg/m3		US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	5 µg/m3		US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	1,000 µg/m3		US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	100 µg/m3		US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
1,2,3-Propanetriol - Respirable fraction.	PEL	5 mg/m3		US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
1,2,3-Propanetriol - Total dust.	PEL	15 mg/m3		US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
2-Propanol	TWA	400 ppm	980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	500 ppm	1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	400 ppm	980 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A
	STEL	500 ppm	1,225 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A
	AN ESL	200 ppb		US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	2,000 ppb		US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	492 µg/m3		US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	4,920 µg/m3		US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	TWA PEL	400 ppm	980 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants
	STEL	500 ppm	1,225	US. California Code of Regulations, Title 8,



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

		mg/m3		Section 5155. Airborne Contaminants
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	400 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	IDLH	2,000 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	LEL		2.0 %	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Phenol	TWA	5 ppm	19 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	5 ppm	19 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	ST ESL		150 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL		19 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL		40 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL		5 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	TWA PEL	5 ppm	19 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA	5 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	5 ppm	19 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	Ceil_Time	15.6 ppm	60 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	IDLH	250 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	PEL	5 ppm	19 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), 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



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

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
---------------	----------------------------	-----------------------	--------

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.

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: 180 °F/82 °C
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: 86 °F/30 °C
Self Ignition Temperature: No data available.
Decomposition Temperature: No data available.
pH: No data available.



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

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.
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:	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.



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

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: 3,427 mg/kg
Components:
1,2,3-Propanetriol LD 50 (Rat): 27,200 mg/kg
Experimental result, Key study LD 50 (Rat): 18,300 mg/kg
Experimental result, Supporting study
2-Propanol LD 50 (Rat): 5,045 mg/kg
Phenol LD 50 (Mouse): 270 mg/kg
LD 50 (Rat): 340 mg/kg
Experimental result, Weight of Evidence study LD 50 (Mouse): 282 mg/kg
Not specified, Not specified
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1) No data available.

Dermal

Product: ATEmix: 4,115.23 mg/kg
Components:
1,2,3-Propanetriol No data available.
2-Propanol LD 50 (Rabbit): 12,800 mg/kg
Phenol No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1) No data available.



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

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:

1,2,3-Propanetriol	No data available.
2-Propanol	LC 50 (Rat, 6 h): > 10000 ppm Vapor; 1 = reliable without restrictions; Experimental result, Key study, Vapor
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Repeated dose toxicity

Product: No data available.

Components:

1,2,3-Propanetriol	LOAEL (Rat(Female, Male), Inhalation): 1,000 mg/m3 Experimental result, Supporting study Inhalation LOAEL (Rat(Female, Male), Oral, 90 d): 200,000 ppm(m) Experimental result, Key study Oral NOAEL (Rat(Female, Male), Inhalation): 167 mg/m3 Experimental result, Key study Inhalation
2-Propanol	NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Experimental result, Key study Inhalation
Phenol	NOAEL (Rat(Female, Male), Oral, 13 Weeks): 5,000 ppm(m) Experimental result, Weight of Evidence study Oral NOAEL (Rat(Female, Male), Oral, 103 Weeks): 5,000 ppm(m) Experimental result, Weight of Evidence study Oral NOAEL (Rabbit, Dermal, 18 d): 130 mg/kg Experimental result, Key study Dermal LOAEL (Rabbit, Dermal, 18 d): 260 mg/kg Experimental result, Key study Dermal
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Skin Corrosion/Irritation

Product: No data available.

Components:

1,2,3-Propanetriol	No data available.
2-Propanol	in vivo (Guinea pig): Not Classified , 4 - 48 h in vivo (Rabbit): Not Classified , 4 - 48 h
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:



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

1,2,3-Propanetriol	Not irritating in vivo Rabbit, 24 hrs: Expert judgment
2-Propanol	Category 2: Causes serious eye irritation in vivo Rabbit, 1 d: CLP (1272/2008)
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Respiratory or Skin Sensitization

Product: No data available.

Components:

1,2,3-Propanetriol	No data available.
2-Propanol	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Carcinogenicity

Product: No data available.

Components:

1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	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:

1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.



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

In vivo

Product: No data available.

Components:

1,2,3-Propanetriol No data available.
2-Propanol No data available.
Phenol No data available.
Benzenamine, 4,4'-
carbonimidoylbis[N,N-
dimethyl-, hydrochloride
(1:1) No data available.

Reproductive toxicity

Product: No data available.

Components:

1,2,3-Propanetriol No data available.
2-Propanol No data available.
Phenol No data available.
Benzenamine, 4,4'-
carbonimidoylbis[N,N-
dimethyl-, hydrochloride
(1:1) No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

1,2,3-Propanetriol No data available.
2-Propanol No data available.
Phenol No data available.
Benzenamine, 4,4'-
carbonimidoylbis[N,N-
dimethyl-, hydrochloride
(1:1) No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

1,2,3-Propanetriol No data available.
2-Propanol No data available.
Phenol No data available.
Benzenamine, 4,4'-
carbonimidoylbis[N,N-
dimethyl-, hydrochloride
(1:1) No data available.

Aspiration Hazard

Product: No data available.

Components:

1,2,3-Propanetriol No data available.
2-Propanol No data available.
Phenol No data available.



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

Benzenamine, 4,4'-
carbonimidoylbis[N,N-
dimethyl-, hydrochloride
(1:1) 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:

1,2,3-Propanetriol LC 50 (Oncorhynchus mykiss, 96 h): 54,000 mg/l Experimental result, Key study
LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 51,000 - 57,000 mg/l Mortality
LC 50 (Pimephales promelas, 96 h): 885 mg/l Experimental result, Supporting study
LC 50 (Carp (Leuciscus idus melanotus), 48 h): > 10,000 mg/l Mortality
LC 50 (Goldfish (Carassius auratus), 24 h): > 5,000 mg/l Mortality
2-Propanol LC 50 (Pimephales promelas, 96 h): 8,680 mg/l
LC 50 (Fathead minnow (Pimephales promelas), 24 h): 11,160 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 9,230 - 10,000 mg/l Mortality
LC 50 (Bluegill (Lepomis macrochirus), 24 h): > 1,400 mg/l Mortality
LC 50 (Fathead minnow (Pimephales promelas), 24 h): 10,600 mg/l Mortality
Phenol LC 50 (Danio rerio, 96 h): 86.4 mg/l Experimental result, Supporting study
LC 50 (Pimephales promelas, 96 h): 67.5 mg/l Experimental result, Key study
Benzenamine, 4,4'-
carbonimidoylbis[N,N-
dimethyl-, hydrochloride
(1:1) No data available.

Aquatic Invertebrates

Product: No data available.

Components:

1,2,3-Propanetriol EC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Weight of Evidence study
EC 50 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Weight of Evidence study



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

2-Propanol	EC 50 (Daphnia magna, 24 h): 9,714 mg/l Experimental result, Supporting study EC 100 (Daphnia magna, 24 h): > 10,000 mg/l Experimental result, Supporting study LC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Mortality LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality LC 50 (Common shrimp, sand shrimp (Crangon crangon), 96 h): 750 - 1,650 mg/l Mortality
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Aquatic Invertebrates

Product:	No data available.
-----------------	--------------------



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

Components:

1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Toxicity to microorganisms

Product: No data available.

Components:

1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

1,2,3-Propanetriol	86 % Experimental result, Key study Detected in water. 94 % Experimental result, Key study Detected in water. 60 % Experimental result, Key study Detected in water. 98.7 % (24 h) Experimental result, Supporting study Detected in water.
2-Propanol	53 % (5 d) Experimental result, Key study Detected in water.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

BOD/COD Ratio

Product: No data available.

Components:

1,2,3-Propanetriol	No data available.
--------------------	--------------------



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

2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	Pimephales promelas, Bioconcentration Factor (BCF): 4,300 Aquatic sediment Experimental result, Not specified
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	Log Kow: No data available.
Components:	
1,2,3-Propanetriol	Log Kow: -1.76
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Mobility in soil:

Product	No data available.
Components:	
1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)	No data available.

Results of PBT and vPvB assessment:

Product	No data available.
Components:	
1,2,3-Propanetriol	No data available.
2-Propanol	No data available.
Phenol	No data available.



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

Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1) 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 characteristics at time of disposal.

14. Transport information

DOT

UN number or ID number: UN 3316
UN Proper Shipping Name: Chemical kits
Transport Hazard Class(es)
 Class: 9
 Label(s): 9
Packing Group: III
Marine Pollutant: No

Special precautions for user: Not regulated.



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

IMDG

UN number or ID number: UN 3316
UN Proper Shipping Name: CHEMICAL KIT
Transport Hazard Class(es)
Class: 9
Subsidiary risk: 9
EmS No.: F-A, S-P
Packing Group: III
Environmental Hazards
Marine Pollutant: No

Special precautions for user: Not regulated.

IATA

UN number or ID number: UN 3316
Proper Shipping Name: Chemical kit
Transport Hazard Class(es):
Class: 9
Subsidiary risk: 9MI
Packing Group: III
Environmental Hazards
Marine pollutant: No

Special precautions for user: Not regulated.

15. Regulatory information**US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. 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

2-Propanol
Phenol
rhodamine B



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

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Germ Cell Mutagenicity, Carcinogenicity, Specific target organ toxicity (single or repeated exposure), Hazards Not Otherwise Classified (HNOC)

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. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

<u>Chemical Identity</u>	<u>% by weight</u>
2-Propanol	1.0%
Phenol	1.0%

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)

<u>Chemical Identity</u>
Phenol

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, rhodamine B which is [are] known to the State of California to cause cancer.

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

US. New Jersey Worker and Community Right-to-Know Act

<u>Chemical Identity</u>
1,2,3-Propanetriol
2-Propanol
Phenol

US. Massachusetts RTK - Substance List

<u>Chemical Identity</u>
1,2,3-Propanetriol
2-Propanol
Phenol



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

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

1,2,3-Propanetriol
2-Propanol
Phenol
Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, hydrochloride (1:1)

US. Rhode Island RTK

Chemical Identity

1,2,3-Propanetriol
2-Propanol
Phenol

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

Issue Date: 12/14/2021
Version #: 1.2
Further Information: No data available.



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

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.