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SAFETY DATA SHEET

Classified in accordance with Work Health and Safety Regulations 2011

1. Identification of the substance or mixture and of the supplier

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
600415	BD™ ChloroPrep™ Applicator with Hi-Lite Orange™ Tint, 3 mL	No data available

Recommended use of the chemical and restrictions on use

Recommended use: Skin Antiseptic

Recommended restrictions: For External Use Only

Supplier's details

Supplier

Company Name: Becton Dickinson Pty Ltd
Address: 66 Waterloo Rd
Macquarie Park NSW 2113
Australia

Telephone: 1 800 656 100

Fax:

Contact Person: Customer Service

E-mail: bd_anz@bd.com

Emergency telephone number: ChemTrec Australia: +(61)-290372994

2. Hazard(s) identification

GHS classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Serious Eye Damage/Eye Irritation Category 2

Specific Target Organ Toxicity - Single
Exposure Category 3 (Narcotic effect.)

Environmental Hazards

Acute hazards to the aquatic
environment Category 3

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Chronic hazards to the aquatic
environment

Category 3

GHS label elements

Hazard symbol(s):



Signal Word: Danger

Hazard Statement(s): H225: Highly flammable liquid and vapor.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statement(s):

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242: Use non-sparking tools.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER or doctor/ physician if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P370+P378: In case of fire: Use water spray for extinction.

Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed.

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

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**Other hazards which do not result in
GHS classification:**

May cause permanent damage if permitted to enter and remain in the ears or eyes for a long period of time. Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
2-Propanol	No data available.	67-63-0	>60%
D-Gluconic acid, compd. with N1,N14-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediiimidamide (2:1)	No data available.	18472-51-0	1 - 10%

^{*} 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.

4. First-aid measures

Description of first aid measures

General information:

Get medical attention if symptoms occur.

Inhalation:

Move to fresh air. Get medical attention if any discomfort continues.

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Skin Contact:	Wash skin thoroughly with soap and water.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.
Ingestion:	Drink plenty of water. Get medical attention immediately.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	No data available.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	No data available.
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5. Fire-fighting measures

General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media:	Use: Water. Water fog. Dry chemical. Alcohol foam.
Unsuitable extinguishing media:	Not applicable
Special hazards arising from the substance or mixture:	No data available.

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Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No unusual fire or explosion hazards noted.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment.

Accidental release measures: Considering the size of the packaging, the risk is regarded as minimal.

Methods and material for containment and cleaning up: Small quantities may be flushed to drains with plenty of water. Large Spillages: Absorb spillage with non-combustible, absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Handling



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Technical measures: No data available.

Local/Total ventilation: No data available.

Safe handling advice: Do not eat, drink or smoke when using the product.
 Avoid ingestion. Avoid contact with eyes, ears, mouth
 For External Use Only

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Avoid contact with oxidizing agents. Store in a cool, dry place. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Store at temperature 15 - 30°C. Protect from freezing. Avoid excessive heat (40°C). Store isolated from oxidizers, ignition sources, and explosives. Consult local fire codes for additional storage information. Keep out of reach of children.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
2-Propanol	TWA	200 ppm	ACGIH (12 2010)
	STEL	400 ppm	ACGIH (12 2010)

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.

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Biological Limit Values

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
2-Propanol	acetone Sampling time: End of shift at end of work week.	40 mg/l (Urine)	ACGIH BEI (03 2013)

Appropriate Engineering Controls: Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

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

Hand Protection: Material: Latex gloves for normal use, Nitrile gloves recommended for spill cleanup

Other: No special precautions.

Respiratory Protection: None should be needed.

Hygiene measures: Avoid contact with eyes.

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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

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

Odor: Alcohol

Odor Threshold: No data available.

Freezing point: No data available.

Boiling Point: 188.6 °F/87.0 °C

Flammability: Flammable liquid

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: 12.7 %(V)

Explosive limit - lower: 2.2 %(V)

Flash Point: 68.2 °F/20.1 °C
Method: Closed Cup

75.2 °F/24.0 °C
Method: Open Cup

Self-ignition: Product is not self-igniting.

Decomposition Temperature: No data available.

pH: estimated
7.0

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Viscosity

Dynamic viscosity: No data available.

Kinematic viscosity: No data available.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): Soluble

Partition coefficient (n-octanol/water): No data available.

Vapor pressure: 43 hPa

Relative density: 0.880

Density: No data available.

Bulk density: No data available.

Relative vapor density: No data available.

Other information

Auto-ignition temperature: 797 °F/425 °C

10. Stability and reactivity

Reactivity: Material is stable under normal conditions.

Chemical Stability: Material is stable under normal conditions.

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Possibility of hazardous reactions:	Not determined.
Conditions to avoid:	Excessive heat.
Incompatible Materials:	Strong oxidizers, potassium dioxide, bromine pentafluoride, acetyl bromide, acetyl chloride, platinum, sodium
Hazardous Decomposition Products:	Carbon Dioxide. Carbon Monoxide. Chlorinated compounds.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	None under normal conditions.
Skin Contact:	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact:	Do not get in eyes.
Ingestion:	Due to the small packaging the risk of ingestion is minimal.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No specific symptoms noted.
Skin Contact:	Repeated exposure may cause skin dryness or cracking.
Eye contact:	Causes serious eye irritation. May cause permanent damage if eye is not immediately irrigated.
Ingestion:	No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix, 73,913.04 mg/kg
Components:	
2-Propanol	LD 50, Rat, 5,045 mg/kg
D-Gluconic acid, compd.	LD 50, Rat, 2,000 mg/kg
with N1,N14-bis(4-chlorophenyl)-3,12-	LD 50, Mouse, 1,700 mg/kg, 2 = reliable with restrictions



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diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Dermal

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. LD 50, Rabbit, 5,000 mg/kg, 2 = reliable with restrictions
with N1,N14-bis(4- LD 50, Rabbit, > 5,000 mg/kg, 2 = reliable with restrictions, Experimental
chlorophenyl)-3,12- result, Key study
diimino-2,4,11,13-

tetraazatetradecanediimid
amide (2:1)

Inhalation

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Repeated dose toxicity

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Skin Corrosion/Irritation

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

2-Propanol No data available.

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D-Gluconic acid, compd. No data available.
with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Respiratory or Skin Sensitization

Product: No data available.

Components:

2-Propanol Skin sensitization:, in vivo, Guinea pig, Non sensitising

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Carcinogenicity

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

Notifiable Carcinogenic Substances:

No carcinogens present or none present in regulated quantities

Prohibited Chemical Substances:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
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diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

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In vivo

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Reproductive toxicity

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Aspiration Hazard

Product: No data available.

Components:

2-Propanol No data available.

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D-Gluconic acid, compd. No data available.
with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Toxicity to Aquatic Plants

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Toxicity to microorganisms

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.

with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimi
damide (2:1)

Aquatic Invertebrates

Product: No data available.

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Components:

2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimi damide (2:1)	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimi damide (2:1)	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
2-Propanol	No data available.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimi damide (2:1)	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
2-Propanol	53 %, 5 d, Experimental result, Key study Detected in water.
D-Gluconic acid, compd. with N1,N14-bis(4- chlorophenyl)-3,12- diimino-2,4,11,13- tetraazatetradecanediimid amide (2:1)	65 %, Experimental result, Key study Detected in water. 100 %, Experimental result, Not specified Detected in water. > 0 %, Experimental result, Key study Detected in water. 79 %, Experimental result, Key study Detected in water. 71 %, Experimental result, Key study Detected in water.

BOD/COD Ratio

Product:	No data available.
Components:	
2-Propanol	No data available.

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D-Gluconic acid, compd. No data available.
with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. Green algae (*Chlorella fusca vacuolata*), 2,560, Static
with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1) Carp (*Leuciscus idus melanotus*), 42, Renewal
Leuciscus idus, 42, Experimental result, Key study Aquatic sediment
Leuciscus idus, 40, Experimental result, Key study Aquatic sediment

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. No data available.
with N1,N14-bis(4-
chlorophenyl)-3,12-
diimino-2,4,11,13-
tetraazatetradecanediimid
amide (2:1)

Mobility in soil:

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. with No data available.
N1,N14-bis(4-chlorophenyl)-
3,12-diimino-2,4,11,13-
tetraazatetradecanediimidam
ide (2:1)

Results of PBT and vPvB assessment:

Product: No data available.

Components:

2-Propanol No data available.

D-Gluconic acid, compd. with No data available.
N1,N14-bis(4-chlorophenyl)-
3,12-diimino-2,4,11,13-
tetraazatetradecanediimidam
ide (2:1)



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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: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated
Packaging:** No data available.

14. Transport information



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ADG

UN number or ID number: UN 1219
UN Proper Shipping Name: ISOPROPANOL
Transport Hazard Class(es)
 Class: 3
 Label(s): 3
Packing Group: II
Environmental Hazards
 Marine Pollutant: No
 Special precautions for user: –

IATA

UN number or ID number: UN 1219
UN Proper Shipping Name: ISOPROPANOL
Transport Hazard Class(es)
 Class: 3
 Label(s): 3
Packing Group: II
Passenger and cargo aircraft : 353
 Limited quantity 1.00L
Environmental Hazards
 Environmentally Hazardous: No
 Marine Pollutant: No



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Special precautions for user: PG

Passenger and cargo aircraft: Allowed. 353

Cargo aircraft only : Allowed. 364

IMDG

UN number or ID number: UN 1219

UN Proper Shipping Name: ISOPROPANOL

Transport Hazard Class(es)

Class: 3

Label(s): 3

EmS No.: F-E, S-D

Packing Group: II

Limited quantity None.

Environmental Hazards

Environmentally Hazardous: No

Marine Pollutant: No

Special precautions for user: PG

Hazchem Code: No data available.

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

Not applicable for product as supplied.

15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poisons Schedule Number

Product: Poisons schedule number not allocated.

Notifiable Carcinogenic Substances

Not Regulated

Prohibited Carcinogenic Substances

Not Regulated

National Pollutant Inventory (NPI) substance reporting list

Not Regulated

Prohibited Substances (National Model Regulations for the Control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994))

Not Regulated

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not Regulated

Importation of Ozone Depleting Substances (Customs (Prohibited Imports) Regulations 1956, Schedule 10)

Not Regulated

High Volume Industrial Chemicals (HVIC)

Not Regulated

International regulations

Montreal protocol

Not applicable

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Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16. Other Information

Date of first report version: 05.12.2017

Generation date: 02.10.2024

Version #: 1.2

Abbreviations and acronyms:

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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;

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REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Further Information: No data available.

References: 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.