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SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product No.:	Product name:	Common name(s), synonym(s)
261187	BD BBL™ DMACA Indole Reagent Dropper	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

Hazard Classification

Health Hazards

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Toxicity - Single Exposure	Category 3

Label Elements

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Hazard Symbol:



Signal Word:	Danger
Hazard Statement:	H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation.
Precautionary Statements	
Prevention:	P260: Do not breathe dust/fume/gas/mist/vapors/spray. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P264: Wash face, hands and any exposed skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area.
Response:	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310: Immediately call a POISON CENTER or doctor/ physician. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P363: Wash contaminated clothing before reuse. P337+P313: If eye irritation persists: Get medical advice/attention.
Storage:	P405: Store locked up. P403: Store in a well-ventilated place. P233: Keep container tightly closed.
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.

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3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Hydrochloric acid	No data available.	7647-01-0	10%
p-dimethylaminocinnamaldehyde	No data available.	6203-18-5	1%

* 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: Causes severe skin burns and eye damage. Get immediate medical advice/attention. May cause respiratory irritation.

Inhalation: Move to fresh air. Get medical attention if any discomfort continues. May cause respiratory irritation.

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.

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Hazards:	Causes severe skin burns and eye damage. May cause respiratory irritation.

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:	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.
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:	No data available.

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Methods and material for containment and cleaning up:	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:	No data available.
Local/Total ventilation:	No data available.
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

Control Parameters

Occupational Exposure Limits

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Chemical Identity	Type	Exposure Limit Values		Source
Hydrochloric acid	Ceiling	5 ppm	7 mg/m3	OSHA Z1A
	Ceiling	5 ppm	7 mg/m3	TN OEL
	ST ESL		130 ppb	TX ESL
	AN ESL		5.7 ppb	TX ESL
	AN ESL		8.4 µg/m3	TX ESL
	ST ESL		190 µg/m3	TX ESL
	Ceiling	5 ppm	7 mg/m3	US CA OEL
	Ceiling	2 ppm		ACGIH
	Ceil_Time	5 ppm	7 mg/m3	NIOSH
	Ceiling	5 ppm	7 mg/m3	OSHA Z1
	IDLH	50 ppm		NIOSH IDLH

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 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

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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:	No data available.
Flammability:	No data available.

Upper/lower limit on flammability or explosive limits

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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.
pH:	1.2 - 1.8
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
No data available

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.

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Hazardous Decomposition Products:	By heating and fire, corrosive vapors/gases may be formed.

11. Toxicological information

General information: Irritating to respiratory system and skin.

Information on likely routes of exposure

Inhalation: May cause irritation to the respiratory system.

Skin Contact: Causes severe skin burns.

Eye contact: Risk of serious damage to eyes.

Ingestion: Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

Acute toxicity (list all possible routes of exposure)

Oral

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Dermal

Product:	ATEmix, 14,490 mg/kg
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Inhalation

Product:	No data available.
Components:	
Hydrochloric acid	LC 50, Rat, 4 h, 1405 ppm LC 50, Rat, 1 h, 2810 ppm
p-dimethylaminocinnamaldehyde	No data available.

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Repeated dose toxicity

Product:	No data available.
Components:	
Hydrochloric acid	NOAEL Mouse, Female, Male, Inhalation, 4 - 91 d, 20 ppm(m), Experimental result, Key study Inhalation NOAEL Rat, Female, Male, Inhalation, 4 - 91 d, 10 ppm(m), Experimental result, Key study Inhalation NOAEL Rat, Female, Male, Inhalation, 4 - 91 d, 20 ppm(m), Experimental result, Key study Inhalation LOAEL Mouse, Female, Male, Inhalation, 4 - 91 d, 50 ppm(m), Experimental result, Key study Inhalation NOAEL Guinea pig; Monkey; Rabbit, female, Inhalation, 2 - 20 d, 0.05 mg/l, Experimental result, Supporting study Inhalation
p-dimethylaminocinnamaldehyde	No data available.

Skin Corrosion/Irritation

Product:	Causes severe burns.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Serious Eye Damage/Eye Irritation

Product:	Risk of serious damage to eyes.
Components:	
Hydrochloric acid	Category 1, in vivo, Rabbit, 1 d, EU Category 1, in vivo, Rabbit, 1 - 21 d, EU Category 1, in vivo, Rabbit, 3 - 7 d, EU Category 1, in vivo, Rabbit, 1 - 7 d, EU Category 1, in vivo, Rabbit, 1 - 2 d, EU
p-dimethylaminocinnamaldehyde	No data available.

Respiratory or Skin Sensitization

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Carcinogenicity

Product:	No data available.
Components:	

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Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:
No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity
In vitro

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

In vivo

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	Category 3 with respiratory tract irritation., May cause respiratory irritation.
Components:	
Hydrochloric acid	No data available.

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p-dimethylaminocinnamaldehyde	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	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:

Acute hazards to the aquatic environment:

Fish

Product:	No data on possible environmental effects have been found.
Components:	
Hydrochloric acid	LC 50, Western mosquitofish (Gambusia affinis), 96 h, 282 mg/lStatic, Mortality LC 50, Western mosquitofish (Gambusia affinis), 48 h, 282 mg/lStatic, Mortality LC 50, Western mosquitofish (Gambusia affinis), 24 h, 282 mg/lStatic, Mortality
p-dimethylaminocinnamald	LC 50, Pimephales promelas, 96 h, 5.9 mg/lAcute toxicity

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ehyde

Aquatic Invertebrates

Product:	No data available.
Components:	
Hydrochloric acid	LC 50, Common shrimp, sand shrimp (Crangon crangon), 48 h, 260 mg/lRenewal, Mortality LC 50, Green or European shore crab (Carcinus maenas), 48 h, 240 mg/lRenewal, Mortality
p-dimethylaminocinnamaldehyde	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Toxicity to microorganisms

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Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

BOD/COD Ratio

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	No data available.
Components:	
Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Mobility in soil:

Product:	No data available.

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Components:

Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Results of PBT and vPvB assessment:

Product: No data available.

Components:

Hydrochloric acid	No data available.
p-dimethylaminocinnamaldehyde	No data available.

Other adverse effects:

Other hazards

Product: No data on possible environmental effects have been found. Avoid release to the environment.

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

Environmental Hazards

Environmentally Hazardous: No

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Marine Pollutant:	No

IATA

UN number or ID number:	UN 1789
UN Proper Shipping Name:	HYDROCHLORIC ACID
Transport Hazard Class(es)	
Class:	8
Label(s):	8
Packing Group:	II
Passenger and cargo aircraft :	851
Limited quantity	0.50L

Environmental Hazards	
Environmentally Hazardous:	No
Marine Pollutant:	No
Special precautions for user:	PG

Passenger and cargo aircraft:	Allowed. 851
Cargo aircraft only :	Allowed. 855

IMDG

UN number or ID number:	UN 1789
UN Proper Shipping Name:	HYDROCHLORIC ACID

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Transport Hazard Class(es)

Class:	8
Label(s):	8
EmS No.:	F-A, S-B
Packing Group:	II
Limited quantity	None.

Environmental Hazards

Environmentally Hazardous:	No
Marine Pollutant:	No

Special precautions for user:
PG

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.

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US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Proposed Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

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

HYDROCHLORIC ACID

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Skin Corrosion or Irritation, Serious eye damage or eye irritation

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

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Chemical Identity	% by weight
HYDROCHLORIC ACID (ACID AEROSOLS INCLUDING MISTS, VAPORS, GAS, FOG, AND OTHER AIRBORNE FORMS OF ANY PARTICLE SIZE)	1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Chemical Identity
HYDROCHLORIC ACID (CONC. 37% OR GREATER)
HYDROGEN CHLORIDE (ANHYDROUS)

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity
HYDROCHLORIC ACID

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

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, including date of preparation or last revision

Version #:	2.3
Generation date:	03/12/2024
Date of first report version:	04/18/2014

Abbreviations and acronyms:

ACGIH:	US. ACGIH Threshold Limit Values, 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
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

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Z1A:	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
ACGIH / Ceiling:	Ceiling Limit Value:
NIOSH IDLH / IDLH:	Immediately dangerous to life or health (IDLH) concentration:
NIOSH/GUIDE / Ceil_Time:	Ceiling Limit Value and Time Period (if specified):
OSHA_TRANS / Ceiling:	Ceiling Limit Value:
TN OEL / Ceiling:	Ceiling Limit Value:
TX ESL / ST ESL:	Short-Term ESL:
TX ESL / AN ESL:	Annual ESL:
US CA OEL / Ceiling:	Ceiling Limit Value:
Z1A / Ceiling:	Ceiling Limit Value:

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

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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.

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.