

Reviewed On: 04/09/2015 Date Prepared: 04/09/2015

1 Identification

· Product Identifier

Product Name: DMACA Indole Reagent Dropper

· Catalog Number: 261187

· Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the mixture In-vitro Diagnostics

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

BD Diagnostic Systems

7 Loveton Circle Sparks, MD 21152

Telephone: (410) 771 - 0100 or (800) 638 - 8663 Email Address: Technical_Services@bd.com

· Information Department: Technical Service

· Emergency telephone number:

In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.



GHS07

STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



🔁 C; Corrosive

R34: Causes burns.



Xi; Irritant

Irritating to respiratory system.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)



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· Hazard pictograms





GHS05 GHS07

· Signal word Danger

· Hazard-determining components of labeling:

hydrochloric acid

· Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dusts or mists.

P280 Wear eye protection / face protection. P264 Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area. P271

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/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.

P310 Immediately call a poison center/doctor.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P363 Wash contaminated clothing before reuse.

If eye irritation persists: Get medical advice/attention. P337+P313 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P405 Store locked up.

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

Dispose of contents/container in accordance with local/regional/national/ P501

international regulations.

· NFPA ratings (scale 0-4)



Health = 2Flammability = 0Reactivity = 0

· HMIS ratings (scale 0-4)



3 Health = 3Flammability = 0REACTIVITY \bigcirc Reactivity = 0

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- · Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixture
- · **Description**: Mixture consisting of the following components.

· Dangerous Compo	nents:		
CAS: 7647-01-0 EINECS: 231-595-7	hydrochloric acid	C R34; Xi R37	10.0%
CAS: 6203-18-5 EINECS: 228-267-0	p-dimethylaminocinnamaldehyde	Xi R36/38	5.0%

· Additional information Risk phrases refer to section 15.

4 First-aid measures

- · Description of first aid measures
- · General information Immediately remove contaminated clothing.
- · After inhalation Seek medical treatment in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- · After swallowing Immediately call a doctor.
- · Information for doctor Show this product label or this SDS.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents

CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

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6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Wipe up with damp sponge or mop.
- · Methods and material for containment and cleaning up: No special measures required.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires:
 No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- \cdot Requirements to be met by storerooms and receptacles: 15 30 $^{\circ}{\rm C}$
- Information about storage in one common storage facility:

Store away from oxidizing agents.

Do not store together with alkaline material.

- · Further information about storage conditions:
 - Store in cool, dry conditions in well sealed containers.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems:

No further data; see Section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

7647-01-0 hydrochloric acid

PEL Short-term value: C 7 mg/m³, C 5 ppm REL Short-term value: C 7 mg/m³, C 5 ppm TLV Short-term value: C 2.98 mg/m³, C 2 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal Protective Equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

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Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator. Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:





Chemical resistant gloves (i.e. nitrile, or equivalent).

· Eye protection: Safety glasses

· Body protection: Protective work clothing (lab coat).

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid Color: Clear

· Odor: Characteristic

• **pH-value:** 1.5 +/- 0.3

· Change in condition

Melting point/Melting range: Not determined Boiling point/Boiling range: Not determined

· Flash point: Not applicable

· **Auto igniting:** Product is not self igniting.

· Danger of explosion: Product does not present an explosion hazard.

· **Density**: Not determined

· Solubility in / Miscibility with

Water: Soluble

· Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.

 Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.

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- · Incompatible materials: Incompatible materials: strong acids and oxidizers.
- · Hazardous decomposition products:

Nitrogen oxides (NOx)

Chlorine (CI)

Carbon monoxide (CO) and carbon dioxide (CO2)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive (causes skin burns)

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

7647-01-0 hydrochloric acid

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · **Mobility in soil** No further relevant information available.
- · Ecotoxical effects:
- · Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

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- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. RCRA hazardous waste - RCRA # D002 (corrosive).

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to state and federal regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

•	U	۸	I-l	N	u	m	b	er	
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• **DOT** UN1789

· **ADR, IMDG, IATA** 1789

· UN proper shipping name

· DOT, IMDG, IATA HYDROCHLORIC ACID, mixture

· **ADR** 1789 HYDROCHLORIC ACID, mixture

· Transport hazard class(es)

· DOT



· Class 8 Corrosive substances

· Label 8

· ADR



· Class 8 (C1) Corrosive substances

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Label	8
IMDG, IATA	
Sir Sir	
· Class · Label	8 Corrosive substances 8
Packing group	
DOT, ADR, IMDG, IATA	II .
Environmental hazards: Marine pollutant:	No
Special precautions for user Danger code (Kemler): EMS Number:	<i>Warning: Corrosive substances 80 F-A,S-B</i>
Transport in bulk according to Anne MARPOL73/78 and the IBC Code	ex II of Not applicable.
Transport/Additional information:	
DOT	
Remarks:	This product can be transported using the "small quantity" exception. This package conforms to 49 CFR 173.4 for domestic highway or rail transport only. The Hazard Class, Identification number, and Packing group listed above is for informational purposes only.
IMDG Remarks:	Limited quantity
· IATA · Remarks:	This product can be transported using the exception: Dangerous Goods in Excepted Quantities. The Hazard class, Identification
	number, and Packing group listed above is for informational purposes only.



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15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)

7647-01-0 hydrochloric acid

· SARA Section 313 (specific toxic chemical listings)

7647-01-0 hydrochloric acid

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

 California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
- · TLV (Threshold Limit Value established by ACGIH)

7647-01-0 hydrochloric acid

A4

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS05 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

hydrochloric acid

· Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dusts or mists.

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P280 Wear eye protection / face protection.
P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/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.

P310 Immediately call a poison center/doctor.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P337+P313 If eye irritation persists: Get medical advice/attention. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P405 Store locked up.

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

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability 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 can not guarantee that these are the only hazards that exist.

- · Contact: Technical Service Representative
- · Date of preparation / last revision 04/09/2015 / -
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3