

1 Identification of substance:

- **Product name:** DMACA Indole Reagent Dropper
- **Catalog number:** 261187
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Tel: (410) 771-0100 or (800) 638-8663
- **Information department:** Technical Services
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems at (410)771-0100 or (800)638-8663, or ChemTrec at (800)424-9300.

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

7647-01-0	hydrochloric acid	11.5%
	p-dimethylaminocinnamaldehyde	1.0%

3 Hazards identification

· **Hazard description:**



C Corrosive

- **Information pertaining to particular dangers for man and environment**
R 34 Causes burns.
R 37 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.
- **NFPA ratings (scale 0-4)**



Health = 2
Fire = 0
Reactivity = 0

4 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.

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Information for doctor Show this product label or this MSDS.**5 Fire fighting measures**

- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:** No special measures required.

7 Handling and storage

- **Handling**
 - **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
 - **Information about protection against explosions and fires:** No special measures required.
- **Storage**
 - **Requirements to be met by storerooms and receptacles:** 15 - 30 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.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

Components with limit values that require monitoring at the workplace:**7647-01-0 hydrochloric acid**

PEL	Short-term value: C 7 mg/m ³ , C 5 ppm
REL	Short-term value: C 7 mg/m ³ , C 5 ppm
TLV	Short-term value: C 2.98 mg/m ³ , C 2 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
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.

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· 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:

· General Information

Form:	Liquid
Color:	Clear
Odor:	Characteristic

· 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

· pH-value: 1.5 +/- 0.3

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Materials to be avoided: Incompatible materials: strong acids and oxidizers.

· Dangerous reactions No dangerous reactions known

· Dangerous products of decomposition:

Nitrogen oxides (NO_x)

Chlorine (Cl)

Carbon monoxide (CO) and carbon dioxide (CO₂)

11 Toxicological information

· 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.

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· Additional toxicological information:*Corrosive (causes skin burns)**Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.**The product shows the following dangers according to internally approved calculation methods for preparations:***12 Ecological information:****· Ecotoxicological effects:****· Other information:***The ecological effects have not been thoroughly investigated, but currently none have been identified.***· General notes:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.***13 Disposal considerations****· Product:****· 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****· DOT regulations:****· Hazard class:** 8**· Identification number:** UN1789**· Packing group:** II**· Proper shipping name:** HYDROCHLORIC ACID, mixture**· Label:** 8**· Remarks:** *This product can be transported using the "small quantity" exception. This package conforms to 49 CFR 173.4. The Hazard Class, Identification number, and Packing group listed above is for informational purposes only.***· Land transport ADR/RID (cross-border)****· ADR/RID class:** 8 (C1) Corrosive substances

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- **Danger code (Kemler):** 80
- **UN-Number:** 1789
- **Packaging group:** II
- **Description of goods:** 1789 HYDROCHLORIC ACID, mixture

· **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 1789
- **Label:** 8
- **Packaging group:** II
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Proper shipping name:** HYDROCHLORIC ACID, mixture
- **Remarks:** Limited quantity

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1789
- **Label:** 8
- **Packaging group:** II
- **Proper shipping name:** HYDROCHLORIC ACID, mixture
- **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.

15 Regulations

· **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)**

7647-01-0 hydrochloric acid

p-dimethylaminocinnamaldehyde

· **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.

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· 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.

· Carcinogenicity categories**· IARC (International Agency for Research on Cancer)**

7647-01-0 hydrochloric acid

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· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· Product related hazard information:

The product has been classified and marked in accordance with regulations on hazardous materials.

· Hazard symbols:

C Corrosive

· Hazard-determining components of labeling:

hydrochloric acid

p-dimethylaminocinnamaldehyde

· Risk phrases:

34 Causes burns.

37 Irritating to respiratory system.

· Safety phrases:

1/2 Keep locked up and out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately.

20 When using do not eat or drink.

60 This material and its container must be disposed of as hazardous waste.

16 Other information:

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· Department issuing MSDS: Safety and Environment Department**· Contact:** Technical Service Representative