

**DMACA Reagent****MATERIAL SAFETY DATA SHEET  
SDS/MSDS****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

Product Name : DMACA Reagent

Product Code : 826630

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Industrial &amp; for professional use only.

**1.3 Details of the supplier of the safety data sheet**Company : Central Drug House (P) Ltd  
7/28 Vardaan House  
Ansari Road Daryaganj  
New Delhi -110002  
INDIA

Telephone : +91 11 49404040

Email : [care@cdhfinechemical.com](mailto:care@cdhfinechemical.com)**1.4 Emergency telephone number**

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

**SECTION 2 Hazards Identification****2.1 Classification of the substance or mixture****CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]**

Corrosive to metals, (Category 1), H290

**2.2 Label elements****Labeling according to Regulation (EC) No.1272/2008**

Pictogram

Signal word Warning

Hazard Statement(s)

H290 May be corrosive to metals

Precautionary Statement(s)

P234 Keep only in original container.

P390 Absorb spillage to prevent material damage.

**2.3 Other Hazards**

None

## SECTION 3 Composition/Information On Ingredients

### 3.2 Mixture

Component	Classification	Concentration
Hydrochloric Acid		
CAS No. : 7647-01-0 EC No. : 231-595-7 Index-No : 017-002-01-X	<b>As Per EC Regulation 1272/2008</b> Skin Corr. 1B; STOT SE 3 H314; H335	>=1 - <=5%

Refer Section 16 for complete statement of H codes & classification.

## SECTION 4 First Aid Measures

### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash with plenty of soap and water. Consult a physician.

#### **In case of eye contact**

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of immediate medical attention and special treatment needed

No data available

## SECTION 5 Fire Fighting Measures

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Unsuitable extinguishing media**

No data available.

### 5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas

### 5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary

### 5.4 Further information

No data available

## SECTION 6 Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see Section 13.

## SECTION 7 Handling and Storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Recommended Storage Temperature** : On receipt store between 10-30°C

### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8 Exposure Controls/Personal Protection

### 8.1 Control parameters

Components with workplace control parameters

### 8.2 Exposure controls

#### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

#### **Personal protective equipment**

##### **Hygiene measure**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

##### **Eye/face protection**

Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### **Body protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environment exposure controls**

Do not empty into drains.

**SECTION 9 Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance	Yellow to brown coloured clear solution
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapour density	No data available
Thermal decomposition	No data available

**9.2 Other safety information**

No data available

**SECTION 10 Stability and Reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

No data available

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

No data available

## SECTION 11 Toxicological Information

### 11.1 Information on toxicological effects

#### ***Acute toxicity***

No data available

#### ***Skin corrosion/irritation***

No data available

#### ***Serious eye damage/eye irritation***

No data available

#### ***Respiratory or skin sensitisation***

No data available

#### ***Carcinogenicity***

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### ***Reproductive toxicity***

No data available

#### ***Specific target organ toxicity- single exposure***

No data available

#### ***Aspiration hazard***

No data available

#### ***Potential Health Effects***

##### ***Inhalation***

REFER SECTION 2

##### ***Skin***

REFER SECTION 2

##### ***Eyes***

REFER SECTION 2

##### ***Ingestion***

REFER SECTION 2

### 11.2 Components

#### **Hydrochloric acid (HCL)**

##### ***Acute Oral Toxicity***

Rabbit LD50: 900 mg/kg

##### ***Acute toxicity of the vapour***

Mouse LC50: 1108 ppm, 1h

Rat LC50: 3124 ppm, 1h

##### ***Carcinogenic Effects***

Classified 3 (Not for human) by IARC.

##### ***Reproductive Toxicity***

Cause adverse reproductive effects.

##### ***Skin***

Causes severe skin irritation and burns.

##### ***Eyes***

Causes severe eye irritation/conjunctivitis.

*Inhalation*

May be fatal if inhaled.

*Ingestion*

May be fatal if swallowed.

**Additional information:**

RTECS: MW4025000

**SECTION 12 Ecological Information**

**12.1 Toxicity**

**Components:**

**Hydrochloric acid**

Ecotoxicity:

No data available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation:

The products of degradation are less toxic than the product itself.

**12.2 Persistence and degradability**

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

**SECTION 13 Disposal Considerations**

**13.1 Waste treatments methods**

**Product**

Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose off this material.

**13.2 Contaminated packaging**

Dispose of as unused product.

**SECTION 14 Transport Information**

**14.1 UN-No**

ADNR : 1789 ADR : 1789 IATA\_C : 1789 IATA\_P : 1789 IMDG : 1789 RID : 1789

**14.2 UN proper shipping name**

ADNR : Hydrochloric acid

ADR : Hydrochloric acid  
IATA\_C : Hydrochloric acid  
IATA\_P : Hydrochloric acid  
IMDG : Hydrochloric acid  
RID : Hydrochloric acid

**14.3 Transport hazard class(es)**

ADNR : 8 ADR : 8 IATA\_C : 8 IATA\_P : 8 IMDG : 8 RID : 8

**14.4 Packaging group**

ADNR : III ADR : III IATA\_C : III IATA\_P : III IMDG : III RID : III

**14.5 Environmental hazards**

ADNR : NO ADR : NO IMDG : Marine pollutant - NO IATA\_C : NO IATA\_P : NO RID : NO

**14.6 Special precautions for use**

No data available

**SECTION 15 Regulatory Information**

This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

**15.1 Safety health and environment regulations/legislation specific for the substance or mixture**

No data available

**15.2 Chemical Safety Assessment**

No data available

**SECTION 16 Other information**

Text of H codes and classification mentioned in section 3

H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
Skin Corr. 1B	Skin corrosion or irritation, Category 1B
STOT SE 3	Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

**Further Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.cdhfinechemical.com](http://www.cdhfinechemical.com) for additional terms and conditions of sale.