

Cleaner A

Material number 1 8610

Page: 1 of 9

1. Product and company identification

Product identifier

Trade name: Cleaner A
As part of the kits 1 8610 XX XX XXX
(The positions X code different packages.)

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

General use: Laboratory chemicals, Cleaning agent
For professional use only

Details of the supplier of the safety data sheet

Company name: DiaSys Diagnostic Systems GmbH
Street/POB-No.: Alte Strasse 9
Postal Code, city: 65558 Holzheim
WWW: <http://www.diasys.de>
E-mail: mail@diasys.de
Telephone: +49 (0) 6432-9146-0
Telefax: +49 (0) 6432-9146-32
Dept. responsible for information:
Corporate headquarters, Telephone: +49 (0) 6432-9146-0, Email: mail@diasys.de

Emergency phone number

Infraserv, Telephone: +49 (0) 69-305-6418

2. Hazards identification

Emergency overview

Appearance: Form: liquid
Color: colorless
Odor: characteristic
Classification: Corrosive to Metals - Category 1; Skin Irritation - Category 2; Eye Irritation - Category 2A;

Hazard symbols:



Signal word:

Warning

Hazard statements:

May be corrosive to metals.
Causes skin irritation.
Causes serious eye irritation.

Precautionary statements:

Keep only in original container.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Absorb spillage to prevent material damage.



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 1/23/2019

Version: 16

Language: en-US

Date of print: 1/30/2019

Cleaner A

Material number 1 8610

Page: 2 of 9

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

A corrosive effect cannot be ruled out because of the pH value.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Aqueous solution

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 7647-01-0	Hydrochloric acid	< 2 %	Corrosive to Metals - Category 1. Skin Corrosion - Category 1B. Specific Target Organ Toxicity (Single Exposure) - Category 3.

4. First aid measures

General information:	If medical advice is needed, have product container or label at hand.
In case of inhalation:	Provide fresh air. In case of respiratory difficulties seek medical attention.
Following skin contact:	Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water. Cover with sterile dressing material to protect against infection. Seek medical attention.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Never give anything by mouth to an unconscious person. Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Risk of perforation! Do not try to neutralize. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

Causes skin irritation. Causes serious eye irritation.
A corrosive effect cannot be ruled out because of the pH value. May cause respiratory irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

not combustible

Auto-ignition temperature: No data available

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 1/23/2019

Version: 16

Language: en-US

Date of print: 1/30/2019

Cleaner A

Material number 1 8610

Page: 3 of 9

Specific hazards arising from the chemical

In the event of a fire, the following may be produced when the water evaporates: Hydrogen chloride, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

In case of surrounding fires: Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions: Do not breathe vapors. Provide adequate ventilation. Avoid contact with skin and eyes. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

Methods for clean-up:

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin and eyes. Do not breathe vapors. Wear appropriate protective equipment. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Storage

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 35.6 °F and 77 °F.

Hints on joint storage:

Do not store together with strong alkalis.
Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7647-01-0	Hydrochloric acid	USA: ACGIH: Ceiling	2.98 mg/m ³ ; 2 ppm (A4)
		USA: NIOSH: Ceiling	7 mg/m ³ ; 5 ppm
		USA: OSHA: Ceiling	7 mg/m ³ ; 5 ppm

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
See also information in chapter 7, section storage.



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 1/23/2019

Version: 16

Language: en-US

Date of print: 1/30/2019

Cleaner A

Material number 1 8610

Page: 4 of 9

Personal protection equipment (PPE)

- Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
- Skin protection: Wear suitable protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: butyl caoutchouc (butyl rubber) - Layer thickness: 0.7 mm.
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.
- General hygiene considerations:
Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Do not breathe vapors. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product. Have eye wash bottle or eye rinse ready at work place.

9. Physical and chemical properties

Information on basic physical and chemical properties

- Appearance: Form: liquid
Color: colorless
- Odor: characteristic
- Odor threshold: No data available
- pH value: at 77 °F: approx. 0.2
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: No data available
- Flash point/flash point range: not combustible
- Evaporation rate: No data available
- Flammability: No data available
- Explosion limits: No data available
- Vapor pressure: No data available
- Vapor density: No data available
- Density: at 68 °F: 1.0008 g/mL
- Water solubility: at 68 °F: completely miscible
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Thermal decomposition: No data available
- Additional information: No data available

10. Stability and reactivity

- Reactivity: May be corrosive to metals.
- Chemical stability: Stable under recommended storage conditions.



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 1/23/2019

Version: 16

Language: en-US

Date of print: 1/30/2019

Cleaner A

Material number 1 8610

Page: 5 of 9

Possibility of hazardous reactions

No hazardous reactions known.

Conditions to avoid: Protect from excessive heat.

Incompatible materials: Alkalis

Hazardous decomposition products:

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: Chronic toxicity carcinogenic effect:

Information about hydrochloric acid:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Symptoms

A corrosive effect cannot be ruled out because of the pH value. May cause respiratory irritation.

In case of ingestion:

Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.

Cleaner A

Material number 1 8610

Page: 6 of 9

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Special waste. Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1789
Proper shipping name: UN 1789, Hydrochloric acid, solution
Hazard class or Division: 8
Packing Group: III
Labels: 8
Special provisions: A3, IB3, T4, TP1
Packaging – Exceptions: 154
Packaging – Non-bulk: 203
Packaging – Bulk: 241
Quantity limitations – Passenger aircraft / rail: 5 L
Quantity limitations – Cargo only: 60 L
Vessel stowage – Location: C
Vessel stowage – Other: 8





SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 1/23/2019
Version: 16
Language: en-US
Date of print: 1/30/2019

Cleaner A

Material number 1 8610

Page: 7 of 9

Sea transport (IMDG)

UN number: UN 1789
Proper shipping name: UN 1789, HYDROCHLORIC ACID, solution
Class or division, Subsidiary risk: Class 8, Subrisk -
Packing Group: III
EmS: F-A, S-B
Special provisions: 223
Limited quantities: 5 L
Excepted quantities: E1
Contaminated packaging - Instructions: P001, LP01
Contaminated packaging - Provisions: -
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1
Stowage and handling: Category C.
Properties and observations: Colourless liquid. An aqueous solution of the gas hydrogen chloride. Highly corrosive to most metals. Causes burns to skin eyes and mucous membranes.
Marine pollutant: no
Segregation group: 1

Air transport (IATA)

UN/ID number: UN 1789
Proper shipping name: UN 1789, HYDROCHLORIC ACID, solution
Class or division, Subsidiary risk: Class 8
Packing Group: III
Hazard label: Corrosive
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L
Special provisions: A3 A803
Emergency Response Guide-Code (ERG): 8L



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 1/23/2019

Version: 16

Language: en-US

Date of print: 1/30/2019

Cleaner A

Material number 1 8610

Page: 8 of 9

15. Regulatory information

National regulations - U.S. Federal Regulations

Hydrochloric acid: TSCA Inventory: listed; EPA flags T
TSCA HPVC: not listed
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 5000 lbs. / Basis for listing = a
Hazardous Air Pollutants: Code X
Clean Water Act:
Hazardous Substances: RQ 5000 lbs.
Other Environmental Laws:
CERCLA: RQ 5000 lbs.
SARA Title III Section 302, EHS: TPQ 500 lbs. / RQ 5000 lbs.
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
NIOSH Recommendations:
Occupational Health Guideline: 0332
OSHA Process Safety Management: Threshold 5000 lbs.

National regulations - U.S. State Regulations

Hydrochloric acid: Delaware Air Quality Management List:
DRQ: 5000 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585 -- AAC: 0.375 -- EL: 0.05 -- OEL: 7.5 -- Title 586: -
Massachusetts Haz. Substances codes: 2,4,5 *E* F6 F8 F9
Minnesota Haz. Substance:
Codes: AO - Ratings: 9.4 - Status: Title III. TRI.
New Jersey Extraordinarily Hazardous Substances:
EPA Threshold: 5000
NJ Threshold: 2000 - NJ Group: I - NJ Table: I Part A - NJ Basis: Not on List
New Jersey RTK Hazardous Substance:
DOT: 1789 - Sub No.: 1012 - TPQ: -
New York List of Hazardous Substances:
RQ -- Air: 5000 - RQ -- Land: 100 - Note: No Note Associated with this chemical.
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
Ceiling: 5 ppm / 7 mg

National regulations - Great Britain

Hazchem-Code: 2R

16. Other information

Text for labeling: Contains < 2 % Hydrochloric acid. Safety data sheet available on request.



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 1/23/2019
Version: 16
Language: en-US
Date of print: 1/30/2019

Cleaner A

Material number 1 8610

Page: 9 of 9

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)
Fire: 0 (Minimal)
Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 1 (Slight)
Flammability: 0 (Minimal)
Physical Hazard: 1 (Slight)
Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	1
	X

Reason of change: ADR/RID 2019

Date of first version: 6/24/2009

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.