

Page 1/9

Printing date 10.01.2023 Revision: 10.01.2023

Version number 34.09 (replaces version 34.08)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: Hydrochloric Acid 3 mol/l (3N)

· Article number: 2057

· Application of the substance / the mixture

Pharmaceutical analysis Laboratory chemicals

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

PANREAC QUIMICA S.L.U.

Tel. (+34) 937 489 400 Fax. (+34) 937 489 401

C/Garraf 2 Polígono Pla de la Bruguera

E-08211 Castellar del Vallès (Barcelona)

e-mail: product.safety@itwreagents.com

E-00211 Castellal del Valles (Barcelolla)

· Further information obtainable from: email: product.safety@panreac.com

· 1.4 Emergency telephone number:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Met. Corr.1 H290 May be corrosive to metals.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms





GHS05 GHS07

- · Signal word Warning
- · Hazard-determining components of labelling: hydrogen chloride

(Contd. on page 2)

Page 2/9

Printing date 10.01.2023 Revision: 10.01.2023

Version number 34.09 (replaces version 34.08)

Trade name: Hydrochloric Acid 3 mol/l (3N)

(Contd. of page 1)

· Hazard statements

H290 May be corrosive to metals. H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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

P405 Store locked up.

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

international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: ageous solution

 Dangerous 	components:
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CAS: 7647-01-0 hydrogen chloride ≥10-≤20% EINECS: 231-595-7 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1,

Reg.nr.: 01-2119484862-27- H318; STOT SE 3, H335

XXXX

Specific concentration limits:
Skin Corr. 1B; H314: C ≥25 %
Skin Irrit. 2; H315: 10 % ≤ C < 25 %

Eye Dam. 1; H318: C ≥ 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; C ≥ 10 %

Met. Corr.1; H290: C ≥ 0.1 %

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information: Seek medical treatment.
- · After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately remove any clothing soiled by the product.

If skin irritation continues, consult a doctor.

- · After eye contact: Call a doctor immediately.
- · **After swallowing:** Seek medical treatment.
- · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

GB

Page 3/9

Printing date 10.01.2023 Revision: 10.01.2023

Version number 34.09 (replaces version 34.08)

Trade name: Hydrochloric Acid 3 mol/I (3N)

(Contd. of page 2)

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Hydrogen chloride (HCI)

Non-combustible.

- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Contain escaping vapours with water.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid substance contact.

Do not inhale steams/aerosols.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Clean up affected area.

6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Work only in fume cupboard.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Provide acid-resistant floor.
- · Information about storage in one common storage facility: Store away from metals.
- · Further information about storage conditions:

Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

- · Recommended storage temperature: Room Temperature
- · Storage class: 12
- · 7.3 Specific end use(s) No further relevant information available.

GB

Page 4/9

Printing date 10.01.2023 Revision: 10.01.2023

Version number 34.09 (replaces version 34.08)

Trade name: Hydrochloric Acid 3 mol/l (3N)

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

7647-01-0 hydrogen chloride

WEL Short-term value: 8 mg/m³, 5 ppm Long-term value: 2 mg/m³, 1 ppm

(gas and aerosol mists)

· DNELs

7647-01-0 hydrogen chloride

Inhalative	Acute - local effects, worker	15 mg/m3
	Long-term - local effects, worker	8 mg/m3

· PNECs

7647-01-0 hydrogen chloride

Aquatic compartment - freshwater	0.036 mg/L
Aquatic compartment - marine water	0.036 mg/L
Aquatic compartment - water, intermittent releases	0.045 mg/L

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device only when aerosol or mist is formed.

- Recommended filter device for short term use: Combination filter E-P2
- · Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.7 mm

Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.7 mm

(Contd. on page 5)

Page 5/9

Printing date 10.01.2023 Revision: 10.01.2023

Version number 34.09 (replaces version 34.08)

Trade name: Hydrochloric Acid 3 mol/l (3N)

(Contd. of page 4)

Value for the permeation: Level ≥ 480 min

· Eye/face protection



Tightly sealed goggles

· Body protection: Acid resistant protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Fluid

Colourless

Pungent

Not determined.

Undetermined.

Boiling point or initial boiling point and boiling

range 102 °C

· Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Decomposition temperature: Not determined.

· pH at 20 °C <3

· Viscosity:

Kinematic viscosityDynamic:SolubilityNot determined.Not determined.

• water: Fully miscible. • Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 20 °C: 23 hPa

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

· 9.2 Other information

· Appearance:

Form: Fluid Important information on protection of health

and environment, and on safety.

· **Auto-ignition temperature:** Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

· Solvent content:

• Water: 80.0 % • VOC (EC) 0.00 %

Change in condition

• Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives Void
Flammable gases Void
Aerosols Void
Oxidising gases Void

(Contd. on page 6)

Page 6/9

Printing date 10.01.2023 Revision: 10.01.2023

Version number 34.09 (replaces version 34.08)

Trade name: Hydrochloric Acid 3 mol/I (3N)

		(Contd. of page 5
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	May be corrosive to metals.	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions Reacts with alkaline metals.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: alkali metals
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

Q.0.0		. ост ст и по р		- -
· Components	Туре	Value	Species	
	drogen chloride			
Dermal LD50	>5,010 mg/kg (rabbit)			
011	71 14 41 0 11			

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · After inhalation: Irritant to skin and mucous membranes.
- · STOT-single exposure May cause respiratory irritation.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.

· Type of tes	st Effective concentration	Method	Assessment
7647-01-0	nydrogen chloride		
EC50/72 h	0.78 mg/l (Algae)		
EC50/48 h	0.492 mg/l (daphnia magna)		
LC50/96 h	24.6 mg/l (fish)		

(Contd. on page 7)

Page 7/9

Printing date 10.01.2023 Revision: 10.01.2023

Version number 34.09 (replaces version 34.08)

Trade name: Hydrochloric Acid 3 mol/l (3N)

(Contd. of page 6)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB**: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

444101 1 15 1		
14.1 UN number or ID number ADR, IMDG, IATA	UN1789	
14.2 UN proper shipping name ADR, IMDG, IATA	HYDROCHLORIC ACID solution	
14.3 Transport hazard class(es)		
ADR		
S S S S S S S S S S S S S S S S S S S		
Class	8 (C1) Corrosive substances.	
Label	8	
IMDG, IATA		
Class	8 Corrosive substances.	
Label	8	
14.4 Packing group		
ADR, IMDG, IATA	II	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user Hazard identification number (Kemler code)	Warning: Corrosive substances.	

Page 8/9

Printing date 10.01.2023 Revision: 10.01.2023

Version number 34.09 (replaces version 34.08)

Trade name: Hydrochloric Acid 3 mol/l (3N)

(Contd. of page 7) · EMS Number: F-A,S-B · Segregation groups (SGG1) Acids Stowage Category · 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category · Tunnel restriction code Ε · IMDG · Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 1789 HYDROCHLORIC ACID SOLUTION, 8, II

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

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)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals – Category 1 Skin Corr. 1B: Skin corrosion/irritation – Category 1B

(Contd. on page 9)

Printing date 10.01.2023

Revision: 10.01.2023

Version number 34.09 (replaces version 34.08)

Trade name: Hydrochloric Acid 3 mol/I (3N)

(Contd. of page 8)

Page 9/9

Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

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