# Honeywell Fluka

# Hydrochloric acid solution

### 35335-1L

Version 1.4

Revision Date 17.12.2022

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

1.1. Product identifier					
Product name	Hydrochloric acid solution				
SDS-number	00000020196				
Type of product	Mixture				
Remarks	SDS according to Art. 31 of Regulation (EC) 1907/2006.				
1.2. Relevant identified u	of the substance or mixture and uses advised against				
Use of the Substance/Mixture	Laboratory chemicals				
Uses advised against	none				
1.3. Details of the supplie	1.3. Details of the supplier of the safety data sheet				
Company	Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA Honeywell International, 115 Tabor Road Morris Plains, NJ 07950 USA				
Telephone For further information, please contact:	: SafetyDataSheet@Honeywell.com				
1.4. Emergency telephone number					
Emergency telephone number Country based Poison Control Center	+1-703-527-3887 (ChemTrec-Transport) +1-303-389-1414 (Medical) see chapter 15.1				

#### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture REGULATION (EC) No 1272/2008

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Corrosive to metals Category 1 H290 May be corrosive to metals.

#### 2.2. Label elements

#### REGULATION (EC) No 1272/2008

Hazard pictograms		
Signal word	: Warning	
Hazard statements	: H290	May be corrosive to metals.
Precautionary statements	: P234 P280	Keep only in original container. Wear protective gloves/ eye protection/ face protection.

#### 2.3. Other hazards

Do not breathe vapours or spray mist. Results of PBT and vPvB assessment, see chapter 12.5.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
hydrochloric acid	7647-01-0 017-002-01-X 231-595-7	Skin Corr. 1B; H314 STOT SE 3; H335; Respiratory system	< 1 %	STOT SE 3; H335:>= 10 %
				Skin Irrit. 2; H315:10 - < 25 % Eye Irrit. 2; H319:10 - < 25 %

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



-	/drochloric acid solution 335-1L
Ve	ersion 1.4 Revision Date 17.12.2022
L	Skin Corr. 1B; H314:>= 25 %
	Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.
	Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.
SE	CTION 4: First aid measures
	4.1 Description of first aid measures
	General advice: First aider needs to protect himself. Move out of dangerous area. Immediately take off contaminated clothing and rinse body with plenty of water. Show this safety data sheet to the doctor in attendance.
	<i>Inhalation:</i> Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.
	Skin contact: Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician.
	<i>Eye contact:</i> Irrigate eyes for at least 15 minutes with copious quantities of water, keeping eyelids apart and away from eyeballs during irrigation. Call a physician.
	<i>Ingestion:</i> Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
	4.2. Most important symptoms and effects, both acute and delayed
	No data available
	4.3. Indication of any immediate medical attention and special treatment needed
	Treat symptomatically.
	See Section 11 for more detailed information on health effects and symptoms.
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#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) Dry powder

*Extinguishing media which shall not be used for safety reasons:* High volume water jet

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

In case of fire hazardous decomposition products may be produced such as: Hydrogen chloride gas

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **SECTION 6: Accidental release measures**

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

Wear personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Discharge into the environment must be avoided. Do not allow run-off from fire fighting to enter drains or water courses.

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

Soak up with inert absorbent material.

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Pick for disposal in tightly closed containers

#### 6.4. Reference to other sections

For personal protection see section 8.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Advice on safe handling:

Wear personal protective equipment. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures:

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Do not get in eyes, on skin, or on clothing. When using, do not eat, drink or smoke. Wash thoroughly after handling.

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

*Requirements for storage areas and containers:* Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from physical damage.

#### 7.3. Specific end use(s)

no additional data available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**DNEL/ PNEC-Values** 

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Component	End- use/impact	Exposure duration	Value	Exposure routes	Remarks
hydrochloric acid	Workers / Acute local effects		15 mg/m3	Inhalation	
hydrochloric acid	Workers / Long-term local effects		8 mg/m3	Inhalation	
hydrochloric acid	Consumers / Acute local effects		15 mg/m3	Inhalation	
hydrochloric acid	Consumers / Long-term local effects		8 mg/m3	Inhalation	

No PNEC data available.

#### 8.2. Exposure controls

#### **Occupational exposure controls**

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

#### **Engineering measures**

Use with local exhaust ventilation.

#### Personal protective equipment

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.

Hand protection: Glove material: Natural Latex Break through time: > 480 min Glove thickness: 0,6 mm Lapren®706 Gloves must be inspected prior to use. Replace when worn.

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Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

*Eye protection:* Safety goggles

*Skin and body protection:* Protective suit

#### **Environmental exposure controls**

Handle in accordance with local environmental regulations and good industrial practices.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
molecular weight	:	36,46 g/mol
Melting point/range	:	No data available
Boiling point/boiling range	:	ca. 100 °C at 1.013 hPa
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable

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Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No decomposition if used as directed.
рН	:	acidic
Viscosity, kinematic	:	No data available
Water solubility	:	completely miscible
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 1,000 g/cm3 at 20 °C
Relative vapour density	:	No data available
9.2 Other Information		
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Corrosive to metals	:	Corrosive to metals
Evaporation rate	:	No data available
Viscosity, dynamic	:	No data available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable under normal conditions.

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#### 10.2. Chemical stability

No decomposition if used as directed.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur. Gives off hydrogen by reaction with metals.

#### 10.4. Conditions to avoid

Protect from extreme heat and cold.

#### 10.5. Incompatible materials

Keep away from metals.

#### 10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Hydrogen chloride gas

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute oral toxicity: No data available

Acute dermal toxicity: No data available

Acute inhalation toxicity: No data available

*Skin irritation:* No data available

*Eye irritation:* No data available

Respiratory or skin sensitisation:

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No data available

Aspiration hazard: No data available

#### 11.2. Information on other hazards

Endocrine disrupting properties No data available

Other information: No data available

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

*Toxicity to fish:* No data available

*Toxicity to aquatic plants:* No data available

*Toxicity to Microorganisms:* No data available

*Toxicity to aquatic invertebrates:* No data available

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

No data available

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#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No information on ecology is available.

#### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

*Product:* Dispose according to legal requirements.

*Packaging:* Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:* Provisions relating to waste: EC Directive 2006/12/EC; 2008/98/EEC Regulation No. 1013/2006

For personal protection see section 8.

#### **SECTION 14: Transport information**

14.1 UN number ADR/RID:1789	IMDG:1789	IATA:1789
<b>14.2 UN proper shipping name</b> ADR/RID:HYDROCHLORIC ACID IMDG:HYDROCHLORIC ACID IATA:Hydrochloric acid	D	
<b>14.3 Transport hazard class(es</b> ) ADR/RID: 8	) IMDG: 8	IATA: 8
<b>14.4 Packaging group</b> ADR/RID: III	IMDG: III	IATA: III
<b>14.5 Environmental hazards</b> ADR/RID:no	Marine pollutant: no Page 11 / 15	



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14.6 Special precautions for user

IMDG Code segregation group (SGG1) – ACIDS,

**14.7 Maritime transport in bulk according to IMO instruments** No data available

**SECTION 15: Regulatory information** 

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Basis	Value	Remarks
Directive 2012/18/EC		Not applicable
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\ge$ 0.1 % (w/w).

#### **Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166

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Greece	+30 210 779 3777	
Hungary	(+36-80)201-199	
Iceland	5432222	
Ireland	+353(1)8092166	
Italy	0382 24444	
	Berlin : 030/19240	
	Bonn : 0228/19240	
	Erfurt : 0361/730730	
Germany	Freiburg : 0761/19240	
Comany	Göttingen : 0551/19240	
	Homburg : 06841/19240	
	Mainz : 06131/19240	
	Munich : 089/19240	
Latvia	+37167042473	

Slovenia	+386 1 400 6051		
Spain	+34915620420		
Sweden	112 (begär Giftinformation);+46104566786		
Switzerland	145		
United Kingdom	(+44) 844 892 0111		

#### Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)

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On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) On the inventory, or in compliance with the inventory

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

#### Text of H-statements referred to under heading 3

hydrochloric acid	:	H314	Causes severe skin burns and eye damage.
		H335	May cause respiratory irritation.

#### **Further information**

All directives and regulations refer to amended versions. Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations: EC European Community CAS Chemical Abstracts Service DNEL Derived no effect level PNEC Predicted no effect level vPvB Very persistent and very biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

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This information should not constitute a guarantee for any specific product properties.

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