Dr. Grogg Chemie AG
Gümligentalstrasse 83
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COVER SHEET FOR THE SAFETY DATA SHEET

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Item number: G840

Trade name: Hydrochloric acid 37% pure

Supplier:
Dr. Grogg Chemie AG
Gümligentalstrasse 83
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Emergency number:
24-hour emergency number: 145
Help with poisoning. Tox Info Suisse provides free medical advice round the clock in cases of poisoning or suspected poisoning.

Tox Info Suisse
Freiestrasse 16
8032 Zürich
Tel. +41 (0) 44 251 51 51
www.toxinfo.ch

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SECTION 1: Identification of the product and of the company

· **1.1 Product identity**

· **Trade name: Chlorhydric acid 37% chemically pure**

· **Article number:** 534
· **UFI:** 7YR0-009C-7001-FW3Q
· **1.2 Relevant uses of the product and uses advised against**
· **Product category**
PC20 Products such as ph-regulators, flocculants, precipitants, neutralization agents
PC21 Laboratory chemicals
PC35 Washing and cleaning products (including solvent based products)

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Thommen-Furler AG
Industriestrasse 10
CH-3295 Rüti bei Büren (BE)
Tel. +41 32 352 08 00
sdb@thommen-furler.ch

· **Information department:** Product Management department
· **1.4 Emergency telephone number:**
Toxicological information Swiss center (available 24h/7d): emergency call 145
or +41 (0) 44 251 51 51

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SECTION 2: Hazard(s) identification

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


GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.


GHS07

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 labeled according to the CLP regulation.
· **Hazard pictograms**


GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Hydrogen chloride > 25%

(Contd. on page 2)

(Contd. of page 1)

· ***Hazard statements***
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
· ***Precautionary statements***

P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
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 Chemical characterization: Mixtures***
· ***Description:*** Mixture of the substances listed below with nonhazardous additions.

· ***Dangerous components:***

CAS: 7647-01-0 EINECS: 231-595-7 Reg.nr.: 01-2119484862-27	Hydrogen chloride > 25% Flam. Liq. 2, H225 Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; H335: C ≥ 10 %	25-50%

· ***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:*** Immediately remove any clothing soiled by the product.
· ***After inhalation:*** In case of unconsciousness place patient stably in side position for transportation.
· ***After skin contact:*** Immediately wash with water and soap and rinse thoroughly.
· ***After eye contact:***
Rinse opened eye for several minutes under running water. Then consult a doctor.
· ***After swallowing:*** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

(Contd. on page 3)

(Contd. of page 2)

· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

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SECTION 5: Fire-fighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:*** Use fire fighting measures that suit the environment.
· ***5.2 Special hazards arising from the substance or mixture***
Hydrogen chloride (HCl)
Contact with limestone, concrete and neutralising agents made from carbonates can release large quantities of carbon dioxide.
CAUTION - RISK OF SUFFOCATION!
· ***5.3 Advice for firefighters***
· ***Protective equipment:*** No special measures required.

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SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
· ***For non-emergency personnel*** Bring people to safety.
· ***For emergency responders***
Respiratory protective equipment must be worn when exposed to vapours, dusts, aerosols and gases.
For leaks etc. with spray mist formation: Chemical protection suit
Do not take any measures that put employees at risk!
· ***6.2 Environmental precautions:***
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
· ***6.3 Methods and material for containment and cleaning up:***
Absorb the liquid with an inert binder.
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· ***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.

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SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· ***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.
Do not store together with textiles.

(Contd. on page 4)

(Contd. of page 3)

Store separately from cyanide (KCN / NaCN) and cyanides! The formation of hydrocyanic acid gases etc. is possible!
No special restrictions, however, observe the storage restrictions!
Store separately from cellulose nitrate.
Store food and food additives separately from chemicals.
Store ammonium nitrate and preparations containing ammonium nitrate separately.

· ***Further information about storage conditions:***
Open receptacle only under localized extractor facilities.
May attack and corrode steel or aluminium beams.
Keep receptacle tightly sealed.

· ***Storage class:*** 8

· ***7.3 Specific end use(s)*** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· ***8.1 Control parameters***

· ***Components with limit values that require monitoring at the workplace:***	
CAS: 7647-01-0 Hydrogen chloride > 25%	
MAK (Switzerland)	Short-term value: 6 mg/m³, 4 ppm Long-term value: 3 mg/m³, 2 ppm SSc;

· ***Additional information:*** The lists that were valid during the creation were used as basis.

· ***8.2 Exposure controls***

· ***Appropriate engineering controls*** No further data; see section 7.

· ***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 or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· ***Protection of hands:***



Protective gloves

· ***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.

· ***Eye protection:***



Tightly sealed goggles

(Contd. on page 5)

(Contd. of page 4)

· ***Body protection:*** Acid resistant protective clothing
· ***Risk management measures***
An emergency shower must be available at the workplace.
An eye shower must be available at the workplace.
Observe the expiry date of the product and the packaging.
Ensure good ventilation.
The material and vapours can have a long-term corrosive effect on metals.

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SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***	
· ***General Information***	
· ***Physical state***	Liquid
· ***Color:***	Colorless
· ***Odor:***	Characteristic
· ***Odor threshold:***	Not determined.
· ***Melting point/Melting range:***	Undetermined.
· ***Boiling point/Boiling range:***	85-108 °C
· ***Flammability:***	Not applicable.
· ***Explosion limits:***	
· ***Lower:***	Not determined.
· ***Upper:***	Not determined.
· ***Flash point:***	Not applicable.
· ***Decomposition temperature:***	Not determined.
· ***pH-value at 20 °C:***	<1
· ***Viscosity:***	
· ***Kinematic:***	Not determined.
· ***Dynamic:***	Not determined.
· ***Solubility in / Miscibility with***	
· ***Water:***	Fully miscible.
· ***Partition coefficient (n-octanol/water):***	Not determined.
· ***Vapor pressure at 20 °C:***	23 hPa
· ***Density and/or relative density***	
· ***Density at 20 °C:***	1.19 g/cm³
Not determined.	
· ***Relative density***	Not determined.
· ***Vapor density***	Not determined.

· ***9.2 Other information***	
· ***Appearance:***	
· ***Form:***	Fluid
· ***Important information on protection of health and environment, and on safety.***	
· ***Ignition temperature:***	Product is not selfigniting.
· ***Danger of explosion:***	Product does not present an explosion hazard.
· ***Solvent content:***	
· ***Water:***	63.0 %
· ***Solids content:***	0.0 %
· ***Change in condition***	
· ***Evaporation rate***	Not determined.

(Contd. on page 6)

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· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **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

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SECTION 10: Stability and reactivity

· **10.1 Reactivity**
Material and vapours: Metal corrosive
May form hydrogen gases on contact with metals! CAUTION DANGER: Explosion hazard!
· **10.2 Chemical stability**
· **Information on the shelf life**
Note shelf life!
The product is stable if the regulations/instructions for storage and handling are observed.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions**
Reacts with light alloys to form hydrogen.
Reacts with alkaline metals.
Reacts with powdered metals.
Corrosive action on metals.
Reacts with reducing agents.
When diluting, always add acid to water, never vice versa.
Reacts with various metals.
Reacts with amines.
· **10.4 Conditions to avoid**
Avoid extreme heat
UV radiation/sunlight.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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(Contd. of page 6)

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**		
Dermal	LD50	>5,040 mg/kg (rabbit)

CAS: 7647-01-0 Hydrogen chloride > 25%		
Oral	LD50	900 mg/kg (rabbit)

· **Primary irritant effect:**
· **on the skin:** Causes severe skin burns and eye damage.
· **on the eye:** Causes serious eye damage.
· **Specific target organ toxicity - single exposure** May cause respiratory irritation.
· **Additional toxicological information:**

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients is listed.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
LC50/96 h	282 mg/l (gammarus lacustris)

· **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:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

(Contd. on page 8)

Trade name: Chlorhydric acid 37% chemically pure

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
· **Waste disposal key:** 06 01 02

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1789
· **14.2 UN proper shipping name**	
· **DOT**	Hydrochloric acid solution
· **ADR**	1789 HYDROCHLORIC ACID solution
· **IMDG, IATA**	HYDROCHLORIC ACID solution
· **14.3 Transport hazard class(es)**	
· **ADR, 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**	Warning: Corrosive substances
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	(SGG1) Acids
· **Stowage Category**	E
· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	
· **Transport/Additional information:**	
· **ADR**	
· **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**	2
· **Tunnel restriction code**	E

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· **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

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
822.115, Ordonnance sur la protection des jeunes travailleurs - OLT 5 and 822.115.2, DEFR Ordinance on dangerous work for young people are applicable.

· **Sara**

· **Section 355 (extremely hazardous substances):**

CAS: 7647-01-0	Hydrogen chloride > 25%

· **Section 313 (Specific toxic chemical listings):**

CAS: 7647-01-0	Hydrogen chloride > 25%

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

CAS: 7647-01-0	Hydrogen chloride > 25%	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labeled according to the CLP regulation.

· **Hazard pictograms**



GHS05 GHS07

· **Signal word** Danger

(Contd. on page 10)

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· ***Hazard-determining components of labeling:***
Hydrogen chloride > 25%
· ***Hazard statements***
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
· ***Precautionary statements***

P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

· ***Directive 2012/18/EU***
· ***Named dangerous substances - ANNEX I*** None of the ingredients is listed.

· ***National regulations:***

· ***Water hazard class:*** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· ***Other regulations, limitations and prohibitive regulations***
· ***Additionnal informations according ChemRRV*** None.

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***
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

· ***Department issuing SDS:*** Product Management department
· ***Contact:*** Product Management
· ***Abbreviations and acronyms:***
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
DOT: US Department of Transportation
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)
LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
Flam. Liq. 2: Flammable liquids – Category 2
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· **** Data compared to the previous version altered.***