Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Version number 3.0

Revision: 02.06.2021

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

- · 1.1 Product identifier
- · Trade name: Tin, standard solution 1000 mg/l for ICP (Sn in HCI 20%)
- · Article number: ES0066
- · Registration number

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the preparation: Laboratory reagent

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: Scharlab, S.L.
C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN
Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65
email: scharlab@scharlab.com
Internet Web Site: www.scharlab.com

- Regional representation: Scharlab, S.L.
 C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN
 Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65
 email: scharlab@scharlab.com
 Internet Web Site: www.scharlab.com
- · Further information obtainable from: technical department

 1.4 Emergency telephone number: Toxicological Information National Institute of Toxicology and Forensic Sciences: + 34 91 562 04 20. The information will be provided (24h/365 days)
 Please contact the regional Scharlab distributor/dealer in your country
 During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



- Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H335 May cause respiratory irritation.
- · 2.2 Label elements

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

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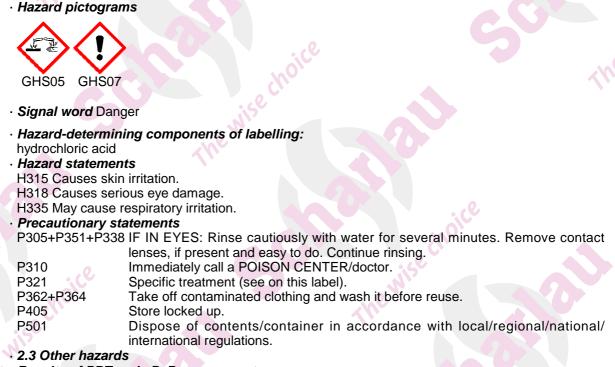
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- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

EINECS: 231-595-7 hydrochloric acid

10-25%

STOT SE 3, H335 • Additional information: For the wording of the listed hazard phrases refer to section 16.

Skin Corr. 1B, H314; Eye Dam. 1, H318; () Acute Tox. 4, H302;

SECTION 4: First aid measures

4.1 Description of first aid measures

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- 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. If symptoms persist, consult a doctor. *After swallowing:* If symptoms persist consult doctor.
- 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.

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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 No further relevant information available.
- 5.3 Advice for firefighters
- 5.3 Advice for firefighters
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 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.
- 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
- Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.
 Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- 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.

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- · 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.
- · Protection of hands:



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- Appearance: Form:
- Colour:
- Odour:
- Odour threshold:
- · pH-value:
- · Change in condition Melting point/freezing point: Initial boiling point and boiling range: 85 °C

Flash point:

- Flammability (solid, gas):
- Auto-ignition temperature:
- Explosive properties:
- · Explosion limits: Lower: **Upper:**
- · Vapour pressure at 20 °C:
- · Density at 20 °C:

Fluid According to product specification Characteristic Not determined.

Not determined.

Undetermined.

Not applicable.

Not applicable.

Product is not selfigniting.

Product does not present an explosion hazard.

Not determined. Not determined.

1.0359 g/cm3

23 hPa

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 Relative density Vapour density Evaporation rate 	Not determined. Not determined. Not determined.
 Solubility in / Miscibility with water: 	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
• Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Water:	77.6 %
Solids content:	0.1 %
· 9.2 Other information	No further relevant information available.

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 No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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 relevant for classification:
- hydrochloric acid
- Oral LD50 900 mg/kg (rabbit)
- Primary irritant effect:
- *Skin corrosion/irritation* Causes skin irritation.
- Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure
- May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

- 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 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.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (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.

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

UN1789

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA
- 14.2 UN proper shipping name

· ADR

- · IMDG, IATA
- 14.3 Transport hazard class(es)
- ADR, IMDG, IATA



- Class Label 8 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: · Marine pollutant: No 14.6 Special precautions for user · Hazard identification number (Kemler code): 80 · EMS Number: Segregation groups Stowage Category 14.7 Transport in bulk according to Annex II
- of Marpol and the IBC Code

8 Corrosive substances.

1789 HYDROCHLORIC ACID

HYDROCHLORIC ACID

Warning: Corrosive substances.

F-A,S-B Acids

Not applicable.

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- Transport/Additional information:
- · ADR
- · Limited quantities (LQ)
- Transport category
- Tunnel restriction code
- · UN "Model Regulation":

UN 1789 HYDROCHLORIC ACID, 8, II

SECTION 15: Regulatory information

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

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· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has 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

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.

H335 May cause respiratory irritation.

- Classification according to Regulation (EC) No 1272/2008
- The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
- · Department issuing SDS: product safety department

· Contact: msds@scharlab.com

· 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

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

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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Eye Dam. 1: Serious eye damage/eye irritation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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Annex: Exposure scenario 1

- **1 Short title of the exposure scenario** Exposure scenario: Hydrochloric acid, 37% Industrial use
- Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- Product category PC21 Laboratory chemicals
- · Process category PROC15 Use as laboratory reagent
- Environmental release category ERC2 Formulation into mixture
- ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article) • **Description of the activities / processes covered in the Exposure Scenario**
- See section 1 of the annex to the Safety Data Sheet.
- · 2 Conditions of use
- Duration and frequency
- Emission days (days/year): 360 5 workdays/week.
- Worker Permanent use with exposure up to 8 hrs every work day of the week.
- · Environment
- No direct exposure.

The product may not be released into the aquatic environment without pre-treatment (biological purification plant).

The product may not be released into the environment without control.

- Physical parameters
- The substance is rapidly hydrolyzed

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- · Physical state Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- It covers a percentage of substance in the product up to 40 %
- Other operational conditions Observe the general safety regulations when handling chemicals.
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting worker exposure Avoid contact with eyes.
- Avoid contact with the skin.
- · Other operational conditions affecting consumer exposure No special measures required.
- Risk management measures
- · Worker protection
- · Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Handle in a fume cupboard or under extract ventilation

Provide emergency eye wash station and mark its location clearly.

Washing facilities / Water for cleaning eyes and skin should be available.

- Provide Internal Plant Instruction.
- Deploy only trained chemical workers.

Avoid contact with drinking water and / or food during application. Keep good industrial hygiene.

- Technical protective measures
 Ensure that suitable extractors are available on processing machines
- **Personal protective measures** Do not inhale gases / fumes / aerosols. Avoid contact with the skin.

contact with the skin

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Avoid contact with the eyes. Tightly sealed goggles Suitable respiratory protective device recommended. Recommended filter: Filter type E-(P2) 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. Acid resistant gloves Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Wear suitable gloves (tested to EN374) · Measures for consumer protection Ensure adequate labelling. Environmental protection measures Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet. Air The exhaust air is lead to a scrubber Water Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required. Soil Prevent contamination of soil. Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet. Disposal measures Ensure that all wastewater is collected and treated in a wastewater treatment plant. Must not be disposed of with household waste. Do not allow to reach sewage system. Disposal must be made according to official regulations. Ensure that waste is collected and contained. **Disposal procedures** Must not be disposed together with household garbage. Do not allow product to reach sewage system. · Waste type Partially emptied and uncleaned packaging · 3 - Exposure estimation · Worker (inhalation) RCR: 0.38 The exposure estimation was carried out in accordance with ECETOC TRA. Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra. 4 - Guidance for downstream users Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8. Whether the downstream user uses the substance / the mixture within the scope of the Exposure Scenario can be determined by means of a technical assessment. For the risk assessment, the tools recommended by ECHA can be used. No further relevant information available. (Contd. on page 10)

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Annex: Exposure scenario 2

- · 1 Short title of the exposure scenario Laboratory use
- · Sector of Use
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Product category PC21 Laboratory chemicals
- Process category PROC15 Use as laboratory reagent
- · Environmental release category
- ERC2 Formulation into mixture
- ERC6a Use of intermediate
- ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article) • Description of the activities / processes covered in the Exposure Scenario
- See section 1 of the annex to the Safety Data Sheet.
- · 2 Conditions of use
- Duration and frequency
- Emission days (days/year): 360 5 workdays/week.
- Worker Permanent use with exposure up to 8 hrs every work day of the week.
- · Environment
- No direct exposure.

The product may not be released into the aquatic environment without pre-treatment (biological purification plant).

The product may not be released into the environment without control.

- Physical parameters
- The substance is rapidly hydrolyzed

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- · Physical state Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- It covers a percentage of substance in the product up to 40 %
- Other operational conditions Observe the general safety regulations when handling chemicals.
- Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting worker exposure Avoid contact with eyes.
- Avoid contact with the skin.
- · Other operational conditions affecting consumer exposure No special measures required.
- · Risk management measures
- · Worker protection
- · Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Handle in a fume cupboard or under extract ventilation

Provide emergency eye wash station and mark its location clearly.

Washing facilities / Water for cleaning eyes and skin should be available.

- Provide Internal Plant Instruction.
- Deploy only trained chemical workers.

Avoid contact with drinking water and / or food during application.

- Keep good industrial hygiene.
 Technical protective measures
 Ensure that suitable extractors are available on processing machines
- **Personal protective measures** Do not inhale gases / fumes / aerosols. Avoid contact with the skin.

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