

Printing date 07/27/2021

Reviewed on 07/27/2021

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Product identifier	
Trade name: Iron 1 µg/mL in 2% HC	
Article number: 1-26-2	
Details of the supplier of the safety dat	a sheet
Manufacturer/Supplier:	
High-Purity Standards	
7221 Investment Drive, North Charlest	on, SC 29418 United States
<i>Telephone:</i> +1-843-767-7900	
<i>Fax:</i> +1-843-767-7906	
highpuritystandards.com	
Email: info@highpuritystandards.com	
Information department: Product safe	y department
Emergency telephone number:	
INFOTRAC	
Emergency telephone numbers1-800-5.	
Other emergency telephone numbers 1-	352-323-3500

· Classification of the substance or mixture

GHS05 Corrosion

Met. Corr.1H290May be corrosive to metals.Skin Corr. 1AH314Causes severe skin burns and eye damage.

GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

• Hazard-determining components of labeling: hydrochloric acid

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If swallowed: Rinse mout If on skin (or hair): Take IF INHALED: Remove per If in eyes: Rinse caution Continue rinsing. Immediately call a poison Specific treatment (see or If eye irritation persists: Wash contaminated cloth Absorb spillage to prever Store in corrosive resista Dispose of contents/conta Classification system: NFPA ratings (scale 0 - Health = 3 Fire = 0 Reactivity HMIS-ratings (scale 0 - HEALTH 3 FIRE 0 Reactivity Other hazards	e burns and eye damage. e irritation. ts ntainer. mists. andling. rotective clothing/eye protection/face protection.
H314 Causes severe skin H319 Causes serious eye Precautionary statement Keep only in original com Do not breathe dusts or m Wash thoroughly after ha Wear protective gloves/p If swallowed: Rinse mout If on skin (or hair): Take IF INHALED: Remove po If in eyes: Rinse caution Continue rinsing. Immediately call a poison Specific treatment (see or If eye irritation persists: Wash contaminated cloth Absorb spillage to prever Store locked up. Store in corrosive resista Dispose of contents/conta Classification system: NFPA ratings (scale 0 - HEALTH A Health = 3 Fire = 0 Reactivity HMIS-ratings (scale 0 - HEALTH A Health = FIRE 0 Reactivity Other hazards	e burns and eye damage. e irritation. ts ntainer. mists. andling. rotective clothing/eye protection/face protection.
H319 Causes serious eye Precautionary statement Keep only in original con Do not breathe dusts or n Wash thoroughly after ha Wear protective gloves/pi If swallowed: Rinse mout If on skin (or hair): Take IF INHALED: Remove po If in eyes: Rinse caution Continue rinsing. Immediately call a poison Specific treatment (see on If eye irritation persists: Wash contaminated cloth Absorb spillage to prever Store in corrosive resista Dispose of contents/conta Classification system: NFPA ratings (scale 0 - HEALTH ¹³ Fire = 0 Reactivity HMIS-ratings (scale 0 - HEALTH ¹³ Fire = 0 Reactivity Other hazards	e irritation. ts ntainer. mists. andling. rotective clothing/eye protection/face protection.
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Continue rinsing. Immediately call a poison Specific treatment (see on If eye irritation persists: Wash contaminated cloth Absorb spillage to prever Store locked up. Store in corrosive resista Dispose of contents/conta Classification system: NFPA ratings (scale 0 - Health = 3 Fire = 0 Reactivity HMIS-ratings (scale 0 - HEALTH 3 Health = FIRE 0 Reactivity Other hazards	erson to fresh air and keep comfortable for breathing.
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Store locked up. Store in corrosive resista Dispose of contents/conto Classification system: NFPA ratings (scale 0 - Health = 3 Fire = 0 Reactivity HMIS-ratings (scale 0 - HEALTH 3 Health = FIRE 0 Reactivity Other hazards	
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Fire = 0 Reactivity HMIS-ratings (scale 0 - HEALTH * Health = FIRE 0 REACTIVITY 0 Reactivity Other hazards	ainer in accordance with local/regional/national/international regulations.
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REACTIVITY O <i>Reactivity</i> Other hazards	
Other hazards	
-	$\gamma = 0$
-	
Results of PBT and vPvI	R assessment
PBT: Not applicable.	
vPvB: Not applicable.	
Composition/inform	
composition injoint	ation on ingredients

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

7647-01-0 hydrochloric acid

(Contd. on page 3)

2.0%

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Trade name: Iron 1 µg/mL in 2% HCl

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· Chemical identification of the substance/preparation	
7732-18-5 water, distilled, conductivity or of similar purity	97.9999%
7439-89-6 iron	0.0001%

4 First-aid measures

- · 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. If symptoms persist, consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.

· 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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· Protective Action Criteria for Chemicals	(Contd. of page 3)
· PAC-1:	
7647-01-0 hydrochloric acid	1.8 ppm
7439-89-6 iron	$3.2 mg/m^3$
· PAC-2:	
7647-01-0 hydrochloric acid	22 ppm
7439-89-6 iron	35 mg/m ³
<i>PAC-3:</i>	
7647-01-0 hydrochloric acid	100 ppm
7439-89-6 iron	150 mg/m ³

7 Handling and storage

· Handling:

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

• Information about protection against explosions and fires: Keep respiratory protective device available.

· 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 receptacle tightly sealed.
- *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

7647-01-0 hydrochloric acid

PEL Ceiling limit value: 7 mg/m³, 5 ppm

REL Ceiling limit value: 7 mg/m³, 5 ppm

TLV Ceiling limit value: 2.98 mg/m³, 2 ppm

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

• Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

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Trade name: Iron 1 µg/mL in 2% HCl

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

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

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

Information on basic physical and General Information	chemical properties	
Appearance: Form:	Liquid	
Color:	colorless	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	



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Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.00301 g/cm ³ (8.37012 lbs/gal)	
Bulk density:	$1,003 \text{ kg/m}^3$	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	98.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

7647-01-0 hydrochloric acid

Oral LD50 900 mg/kg (rabbit)

· Primary irritant effect:

• on the skin: Strong caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Irritating effect.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

 · IARC (International Agency for Research on Cancer)

 7647-01-0
 hydrochloric acid
 3

 · NTP (National Toxicology Program)
 3

 None of the ingredients is listed.
 3

 · OSHA-Ca (Occupational Safety & Health Administration)
 3

 None of the ingredients is listed.
 3

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:
- Not hazardous for water.
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.

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• Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

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

UN-Number		
DOT, ADR, IMDG, IATA	UN1789	
UN proper shipping name		
DOT	Hydrochloric acid solution	
ADR	1789 HYDROCHLORIC ACID solution	
IMDG, IATA	HYDROCHLORIC ACID solution	
Transport hazard class(es)		
DOT		
\land		
CORROSIVE		
8		
Class	8 Corrosive substances	
Label	8	
ADR		
\wedge		
8		
▼ 		
Class	8 (C1) Corrosive substances	
Label	8	
IMDG, IATA		
8		
Class	8 Corrosive substances	

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Label	8
Packing group DOT, ADR, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category	Warning: Corrosive substances 80 F-A,S-B Acids E
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1789 HYDROCHLORIC ACID SOLUTION, 8, III

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• Section 355 (extremely hazardous substances):

7647-01-0 hydrochloric acid

• Section 313 (Specific toxic chemical listings):

7647-01-0 hydrochloric acid

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

7647-01-0 hydrochloric acid

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· 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 established by ACGIH)

7647-01-0 hydrochloric acid

·NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling: hydrochloric acid · Hazard statements H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation. · Precautionary statements Keep only in original container. Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

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Trade name: Iron 1 µg/mL in 2% HCl

Specific treatment (see on this label). If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Department issuing SDS: Environment protection department. · Contact: High-Purity Standards Tel: 843-767-7900 Fax: 843-767-7906 · Date of preparation / last revision 07/27/2021 / -• Abbreviations and acronyms: ADR: Accord européen sur le transport 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 ACGIH: American Conference of Governmental Industrial Hygienists 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent 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 TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Met. Corr.1: Corrosive to metals – Category 1 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

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