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# Safety Data Sheet acc. to OSHA HCS

### Printing date 05/22/2020

Reviewed on 05/22/2020

1 Identification
· Product identifier
• Trade name: Interference Check Standard 5
· Article number: INFCS-5
<ul> <li>Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: High-Purity Standards</li> <li>7221 Investment Drive, North Charleston, SC 29418 United States</li> <li>Telephone: +1-843-767-7900</li> <li>Fax: +1-843-767-7906</li> <li>highpuritystandards.com</li> <li>Email: info@highpuritystandards.com</li> </ul>
• Information department: Product safety department • Emergency telephone number: INFOTRAC Emergency telephone numbers1-800-535-5053 Other emergency telephone numbers 1-352-323-3500
2 Hazard(s) identification
· Classification of the substance or mixture
GHS05 Corrosion
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
• Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms
GHS05
· Signal word Danger

Hazard-determining components of labeling: hydrochloric acid
Hazard statements H314 Causes severe skin burns and eye damage.
Precautionary statements 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.

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(Contd. of page 1) 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. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH \*3 *Health* = \*3 Fire = 0FIRE 0 **REACTIVITY O** Reactivity = 0• Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. **3** Composition/information on ingredients · Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions. · Dangerous components: 7647-01-0 hydrochloric acid 2.0%

/01/ 01 0		2.070
· Chemical identification of the substance/preparation		
7732-18-5	water, distilled, conductivity or of similar purity	97.0%
497-19-8	sodium carbonate	0.5%
7757-79-1	potassium nitrate	0.5%

## 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. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

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· Information for doctor:

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- 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

	piratory protective device.	
	ctive equipment. Keep unprotected persons away.	
	ental precautions:	
	plenty of water.	
	w to enter sewers/ surface or ground water. nd material for containment and cleaning up:	
	h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	lizing agent.	
	ntaminated material as waste according to item 13.	
	equate ventilation.	
	to other sections	
	7 for information on safe handling.	
	8 for information on personal protection equipment.	
	13 for disposal information.	
	Action Criteria for Chemicals	
PAC-1:		
7647-01-0	hydrochloric acid	1.8 ppm
497-19-8	sodium carbonate	7.6 mg/n
7757-79-1	potassium nitrate	9 mg/m <sup>3</sup>
PAC-2:		•
7647-01-0	hydrochloric acid	22 ppm
497-19-8	sodium carbonate	83 mg/m <sup>3</sup>
7757-79-1	potassium nitrate	100 mg/n
PAC-3:		I
	hudue ablevia acid	100 ppm
7647-01-0	nyarocnioric acia	100 ppm



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497-19-8	sodium carbonate	500 mg/m³
7757-79-1	potassium nitrate	600 mg/m <sup>3</sup>

### 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/m<sup>3</sup>, 5 ppm
- *REL Ceiling limit value: 7 mg/m<sup>3</sup>, 5 ppm*
- *TLV Ceiling limit value: 2.98 mg/m<sup>3</sup>, 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.
- 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.

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· Protection of hands:

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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

## 9 Physical and chemical properties

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



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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):	1.01621 g/cm³ (8.48027 lbs/gal)	
Bulk density:	1,006-1,007 kg/m <sup>3</sup>	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	<b>r):</b> Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	97.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	1.0 %	
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.

# **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)

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#### • Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitization: No sensitizing effects known.

### • Additional toxicological information:

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

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

### ·NTP (National Toxicology Program)

None of the ingredients is listed.

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

None of the ingredients is listed.

## **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:
- 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.

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

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

**14 Transport information** · UN-Number UN1789 · DOT, ADR, IMDG, IATA · UN proper shipping name · DOT Hydrochloric acid 1789 HYDROCHLORIC ACID ·ADR HYDROCHLORIC ACID · IMDG, IATA · Transport hazard class(es) · DOT · Class 8 Corrosive substances · Label 8 ·ADR 8 (C1) Corrosive substances · Class · Label 8 · IMDG, IATA · Class 8 Corrosive substances · Label 8 · Packing group · DOT, ĂĎR, ÎMDG, IATA Π · Environmental hazards: Not applicable. Warning: Corrosive substances • Special precautions for user • Hazard identification number (Kemler code): 80 · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. (Contd. on page 9) US

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• Transport/Additional information:	
· ADR · 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, 8, II

## **15 Regulatory information**

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

• Section 355 (extremely hazardous substances):

7647-01-0 hydrochloric acid

• Section 313 (Specific toxic chemical listings):

7647-01-0 hydrochloric acid

7757-79-1 potassium nitrate

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

• Hazardous Air Pollutants

7647-01-0 hydrochloric acid

· 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). (Contd. on page 10)

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• Hazard pictograms



· Signal word Danger · Hazard-determining components of labeling: hvdrochloric acid · Hazard statements H314 Causes severe skin burns and eye damage. · Precautionary statements 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. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. 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 05/22/2020 / -

• 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)

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NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent DS0: 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 Skin Corr. 1A: Skin corrosion/irritation – Category 1A (Contd. of page 10)

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