SH-PURITYANDARDS
Safety Data Sheet
acc. to OSHA HCS

Printing date 04/11/2019

Reviewed on 04/11/2019

Product identifierTrade name:Arsenic as As+3 1000µg/mL in 2% HCIArticle number:10003-6Details of the supplier of the safety data sheetManufacturer/Supplier:Migh-Purity StandardsP.O. Box 41727Charleston, SC 29423Telephone:(#3) 767-7906Information department:Product safety departmentEmergency telephone number:INFOTRACEmergency telephone numbers 1-800-535-5053Other emergency telephone numbers 1-352-323-3500Hazard(s) identificationClassification of the substance or mixture \widehat{V} <th></th> <th></th>		
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Hazard-determining components of labeling: hydrochloric acid diarsenic trioxide	Carc. 1A Carc. 1A Skin Corr. 1 Label eleme GHS label of Hazard pict GHS05	n of the substance or mixture HS08 Health hazard H350 May cause cancer. HS05 Corrosion 1 H314 Causes severe skin burns and eye damage. 14 H314 Causes severe skin burns and eye damage. 15 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 14 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 15 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 15 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 15 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 15 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 15 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 15 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 15 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 16 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 17 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 18 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 18 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 18 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 18 Sements The product is classified and labeled according to the Globally Harmonized System (Correstor) 18 Sements The product is classified according to the Globally Harmonized System (Correstor) 18 Sements The product is classified according to the Globally Harmonized System (Correstor) 18 Sements The product is classified to the product is classified to the produ

Hazard statements
H314 Causes severe skin burns and eye damage.
H350 May cause cancer.
Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dusts or mists.

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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. IF exposed or concerned: Get medical advice/attention. 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 = 0*Reactivity* = 0· HMIS-ratings (scale 0 - 4) HEALTH Health = *3FIRE Fire = 00 **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%
1327-53-3	diarsenic trioxide	0.1%
· Chemical i	dentification of the substance/preparation	
7732-18-5	water, distilled, conductivity or of similar purity	97.9%

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

 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Environmental precautions: Do not allow to enter sewers/ surface or ground water. 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.	
· Protective Action Criteria for Chemicals	
• PAC-1:	
7647-01-0 hydrochloric acid 1.8 p	ррт
1327-53-3 diarsenic trioxide 0.27	7 mg/m³
· PAC-2:	
7647-01-0 hydrochloric acid 22	' ppm
1327-53-3 diarsenic trioxide 3.0	0 mg/m³
· PAC-3:	
7647-01-0 hydrochloric acid 100	0 ppm
1327-53-3 diarsenic trioxide 9.1	l mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- *Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.*

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Prevent formation of aerosols.

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· 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

1327-53-3 diarsenic trioxide

PEL Long-term value: 0.01 mg/m³ as As; 29CFR1910.1018

REL Ceiling limit value: 0.002 mg/m³ as As; 15min; See Pocket Guide App. A

TLV Long-term value: 0.01 mg/m³

• 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.
- Store protective clothing separately.
- 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

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· Material of gloves

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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:	Linuid	
Form: Color:	Liquid 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.	
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):	1.00574 g/cm ³ (8.3929 lbs/gal)	
Bulk density:	1,004 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.	

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Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	97.9 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.1 %	
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)

1327-53-3 diarsenic trioxide

Oral LD50 15.1 mg/kg (rat)

· 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

1327-53-3 diarsenic trioxide

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· NTP (National Toxicology Program)

1327-53-3 diarsenic trioxide

· 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 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even extremely small quantities leak into the ground.

- · 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.*

UN-Number		
DOT, ADR, IMDG, IATA	UN1789	
UN proper shipping name		
DOT	Hydrochloric acid	
ADR	1789 Hydrochloric acid	
IMDG, IATA	HYDROCHLORIC ACID	

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Transport hazard class(es)		
DOT		
\wedge		
<u>see</u>		
CORROSIVE		
V		
Class	8 Corrosive substances	
Label	8	
ADR, IMDG, IATA		
8		
~		
Class	8 Corrosive substances 8	
Label	δ	
Packing group		
DOT, ADR, IMDG, IATA	111	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Corrosive substances	
Danger code (Kemler):	80	
EMS Number:	F-A,S-B	
Segregation groups Stowage Category	Acids E	
Transport in bulk according to Annex		
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: El	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
IMDG		
Limited quantities (LQ)	5L	
Excepted quantities (EQ)	Code: El	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
UN "Model Regulation":	UN 1789 HYDROCHLORIC ACID, 8, III	

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15 Regulatory information

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 \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

1327-53-3 diarsenic trioxide

· Section 313 (Specific toxic chemical listings):

7647-01-0 hydrochloric acid

1327-53-3 diarsenic trioxide

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

1327-53-3 diarsenic trioxide

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:

1327-53-3 diarsenic trioxide

· Carcinogenic categories

· EPA (Environmental Protection Agency) (Substances not listed)

7647-01-0 hydrochloric acid

7732-18-5 water, distilled, conductivity or of similar purity

• TLV (Threshold Limit Value established by ACGIH)

7647-01-0 hydrochloric acid

1327-53-3 diarsenic trioxide

· 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 diarsenic trioxide

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· Hazard statements

H350 May cause cancer. · Precautionary statements

Do not breathe dusts or mists. Wash thoroughly after handling.

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(Contd. of page 9) H314 Causes severe skin burns and eve damage. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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.

IF exposed or concerned: Get medical advice/attention.

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.

· National regulations:

• Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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 04/11/2019 / -· 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

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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 TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Corr. 1A: Skin corrosion/irritation – Category 1A Carc. 1A: Carcinogenicity – Category 1A

