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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: 10M68-2 Zinc(10000 μg/mL in 10% HCl)
Article number: 10M68-2
 Details of the supplier of the safety data sheet Manufacturer/Supplier: High-Purity Standards 7221 Investment Drive, North Charleston, SC 29418 United States Telephone: +1-843-767-7900 Fax: +1-843-767-7906 highpuritystandards.com Email: info@highpuritystandards.com
• Information department: Product safety department • Emergency telephone number: INFOTRAC Emergency telephone numbers 1, 800, 525, 5052
Emergency telephone numbers1-800-535-5053 Other emergency telephone numbers 1-352-323-3500
GHS05 Corrosion Skin Corr. 1A 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. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms
GHS05 GHS07 • Signal word Danger
· Hazard-determining components of labeling:

hydrochloric acid

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7440-66-6 zinc

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1.0% (Contd. on page 3)

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Trade name: 10M68-2 Zinc(10000 µg/mL in 10% HCl)

(Contd. of page 1) · Hazard statements H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. 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 in a well-ventilated place. Keep container tightly closed. 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 *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 10.0%



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· Chemical identification of the substance/preparation

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

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: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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.

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89.0%

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Protective Action Criteria for Chemicals PAC-1:	
7647-01-0 hydrochloric acid	1.8 ppm
7440-66-6 zinc	6 mg/m ³
PAC-2:	· · · · · ·
7647-01-0 hydrochloric acid	22 ppm
7440-66-6 zinc	21 mg/m ³
• PAC-3:	
7647-01-0 hydrochloric acid	100 ppm
7440-66-6 zinc	120 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

At this time, the other constituents have no known exposure limits.

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

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	(Contd. of page
• Additional information: 1h	he lists that were valid during the creation were used as basis.
• Exposure controls	
· Personal protective equipm	
· General protective and hyg	
Keep away from foodstuffs,	
	led and contaminated clothing.
Wash hands before breaks a	
Avoid contact with the eyes. Avoid contact with the eyes	
• Breathing equipment:	unu skin.
In case of brief exposure or	r low pollution use respiratory filter device. In case of intensive or longer exposure us the that is independent of circulating air.
• Protection of hands:	
Protective glove.	S
Troiteenre giore.	J
The glove material has to h	e impermeable and resistant to the product/ the substance/ the preparation.
	commendation to the glove material can be given for the product/ the preparation/ th
chemical mixture.	ommendation to the glove material can be given jor the product, the preparation, it
	rial on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves	
varies from manufacturer to the glove material can not b Penetration time of glove n	e gloves does not only depend on the material, but also on further marks of quality and o manufacturer. As the product is a preparation of several substances, the resistance of be calculated in advance and has therefore to be checked prior to the application. naterial ime has to be found out by the manufacturer of the protective gloves and has to b
Lye protection.	
Tightly sealed go	oggles
Physical and chemical	properties
	ical and chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	colorless
· Odor:	Characteristic
	Characteristic Not determined.

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Trade name: 10M68-2 Zinc(10000 µg/mL in 10% HCl)

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pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
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:	Not determined.	
· Density:	Not determined.	
· 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/wat	t er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	89.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
• 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.

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· 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)
- · Primary irritant effect:
- \cdot on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Irritating effect.
- 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

· 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.
- Ecotoxical effects:
- **Remark:** Harmful to fish
- · 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.

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Trade name: 10M68-2 Zinc(10000 µg/mL in 10% HCl)

Must not reach bodies of water or drainage ditch undiluted or unneutralized. Harmful to aquatic organisms

· 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 mixture	
ADR	1789 HYDROCHLORIC ACID mixture	
IMDG, IATA	HYDROCHLORIC ACID mixture	
Transport hazard class(es)		
DOT		
DORROSIVE 8		
Class	8 Corrosive substances	
Label	8	
ADR, IMDG, IATA		
at at		
Class	8 Corrosive substances	
Label	8	
Packing group DOT, ADR, IMDG, IATA	11	

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Environmental hazards:	Not applicable.		
Special precautions for user	Warning: Corrosive substances		
Hazard identification number (Kemler code)	: 80		
EMS Number:	F-A,S-B		
Segregation groups	Acids		
Stowage Category	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: 1 L		
~ ~	On cargo aircraft only: 30 L		
ADR			
Excepted quantities (EQ)	Code: E2		
	Maximum net quantity per inner packaging: 30 ml		
	Maximum net quantity per outer packaging: 500 ml		
IMDG			
Limited quantities (LQ)	1L		
Excepted quantities $(\widetilde{E}Q)$	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 MIXTURE, 8, II		

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

7440-66-6 zinc

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

7647-01-0 hydrochloric acid

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A4

•	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)

7440-66-6 zinc

• 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 H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. 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).

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Trade name: 10M68-2 Zinc(10000 µg/mL in 10% HCl)

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

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) 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 Skin Corr. 1A: Skin corrosion/irritation - Category 1A 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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