Printing date 05/24/2024 Reviewed on 05/24/2024

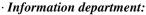
1 Identification

- · Product identifier
- · Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

· Article number: ODP113

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586



Technical Coordinator

Sherman Nelson shermann@aquasolutions.org

Technical Coordinator

Sherman Nelson shermann@aquasolutions.org

Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666



2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.



Skin Corrosion 1A

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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





GHS05

GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Hydrochloric Acid

· Hazard statements

Causes severe skin burns and eye damage.

May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 2)

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(Contd. of page 1)

· 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).

Get medical advice/attention if you feel unwell.

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 = 2Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 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 compo	onents:	
CAS: 7647-01-0	Hydrochloric Acid	7.021%
· Table of Nonhaza	rdous Ingredients	
CAS: 7732-18-5	Water	86.023%
CAS: 7647-14-5	Sodium Chloride	6.869%
CAS: 7697-37-2	Nitric Acid	0.05%
CAS: 7757-82-6	Sodium Sulfate Anhydrous	0.025%
CAS: 87-69-4	L-Tartaric Acid	0.005%
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	0.005%
CAS: 10043-35-3	boric acid	0.001%
CAS: 7439-89-6	Iron Metal	0.0001%
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	0.0001%
		(Contd. on page 3)

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Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

		(Contd. of page 2)
CAS: 7439-93-2	lithium	0.0001%
CAS: 7439-95-4	Magnesium	0.0001%
CAS: 7439-96-5	manganese	0.0001%
CAS: 7439-98-7	Molybdenum Metal, 99.8%	0.0001%
CAS: 7440-02-0	Nickel Metal	0.0001%
CAS: 7440-24-6	strontium	0.0001%
CAS: 7440-28-0	thallium	0.0001%
CAS: 7440-32-6	Titanium Metal	0.0001%
CAS: 7440-36-0	Antimony Metal	0.0001%
CAS: 7440-38-2	arsenic	0.0001%
CAS: 7440-41-7	beryllium	0.0001%
CAS: 7440-43-9	cadmium Metal	0.0001%
CAS: 7440-47-3	chromium	0.0001%
CAS: 7440-48-4	cobalt	0.0001%
CAS: 7440-50-8	copper	0.0001%
CAS: 7440-62-2	vanadium	0.0001%
CAS: 7440-66-6	Zinc Metal	0.0001%
CAS: 7440-70-2	Calcium Metal	0.0001%
CAS: 7782-49-2	selenium	0.0001%

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · 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.
- · 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.

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Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

(Contd. of page 3)

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Dilute with plenty of water.

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 section 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

CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm
CAS: 7697-37-2	Nitric Acid	0.16 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	9.8 mg/m³
CAS: 87-69-4	L-Tartaric Acid	1.6 mg/m³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	1.0 ppm
CAS: 10043-35-3	boric acid	6 mg/m³
CAS: 7439-89-6	Iron Metal	3.2 mg/m ³
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	$0.15 \ mg/m^3$
CAS: 7439-93-2	lithium	3.3 mg/m ³
CAS: 7439-95-4	Magnesium	18 mg/m³
CAS: 7439-96-5	manganese	3 mg/m ³
CAS: 7439-98-7	Molybdenum Metal, 99.8%	30 mg/m³
CAS: 7440-02-0	Nickel Metal	4.5 mg/m^3
CAS: 7440-24-6	strontium	30 mg/m³
CAS: 7440-28-0	thallium	$0.06 \ mg/m^3$
CAS: 7440-32-6	Titanium Metal	30 mg/m³
CAS: 7440-36-0	Antimony Metal	1.5 mg/m³
CAS: 7440-38-2	arsenic	1.5 mg/m ³
CAS: 7440-41-7	beryllium	0.0023 mg/m
CAS: 7440-43-9	cadmium Metal	0.10 mg/m^3
CAS: 7440-47-3	chromium	1.5 mg/m^3
CAS: 7440-48-4	cobalt	$0.18 mg/m^3$
CAS: 7440-50-8	copper	3 mg/m³
CAS: 7440-62-2	vanadium	3 mg/m ³
CAS: 7440-66-6	Zinc Metal	6 mg/m³
CAS: 7782-49-2	selenium	0.6 mg/m³
		(Contd. on page

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Trade name: Caustic Method High Std 1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

<i>PAC-2:</i>		
	Hydrochloric Acid	22 ppm
CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	110 mg/m³
CAS: 87-69-4	L-Tartaric Acid	17 mg/m³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	24 ppm
CAS: 10043-35-3	boric acid	23 mg/m³
CAS: 7439-89-6	Iron Metal	35 mg/m³
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	120 mg/m³
CAS: 7439-93-2	lithium	36 mg/m³
CAS: 7439-95-4	Magnesium	200 mg/m³
CAS: 7439-96-5	manganese	5 mg/m ³
CAS: 7439-98-7	Molybdenum Metal, 99.8%	330 mg/m³
CAS: 7440-02-0	Nickel Metal	50 mg/m³
CAS: 7440-24-6	strontium	330 mg/m³
CAS: 7440-28-0	thallium	3.3 mg/m ³
CAS: 7440-32-6	Titanium Metal	330 mg/m³
CAS: 7440-36-0	Antimony Metal	13 mg/m³
CAS: 7440-38-2	arsenic	17 mg/m³
CAS: 7440-41-7	beryllium	0.025 mg/m
CAS: 7440-43-9	cadmium Metal	0.76 mg/m^3
CAS: 7440-47-3	chromium	17 mg/m³
CAS: 7440-48-4	cobalt	2 mg/m ³
CAS: 7440-50-8	copper	33 mg/m³
CAS: 7440-62-2	vanadium	5.8 mg/m ³
CAS: 7440-66-6	Zinc Metal	21 mg/m³
CAS: 7782-49-2	selenium	6.6 mg/m ³
<i>PAC-3:</i>		'
CAS: 7647-01-0	Hydrochloric Acid	100 ppm
CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	650 mg/m³
CAS: 87-69-4	L-Tartaric Acid	100 mg/m³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	44 ppm
CAS: 10043-35-3	boric acid	830 mg/m³
CAS: 7439-89-6	Iron Metal	150 mg/m³
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	700 mg/m ³
CAS: 7439-93-2	lithium	220 mg/m³
CAS: 7439-95-4	Magnesium	1,200 mg/m
CAS: 7439-96-5	manganese	1,800 mg/m
CAS: 7439-98-7	Molybdenum Metal, 99.8%	2,000 mg/m
CAS: 7440-02-0	Nickel Metal	99 mg/m ³
CAS: 7440-24-6	strontium	2,000 mg/m

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Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

		(Contd. of page 5)
CAS: 7440-28-0	thallium	20 mg/m³
CAS: 7440-32-6	Titanium Metal	2,000 mg/m³
CAS: 7440-36-0	Antimony Metal	80 mg/m³
CAS: 7440-38-2	arsenic	100 mg/m³
CAS: 7440-41-7	beryllium	0.1 mg/m^3
CAS: 7440-43-9	cadmium Metal	4.7 mg/m³
CAS: 7440-47-3	chromium	99 mg/m³
CAS: 7440-48-4	cobalt	20 mg/m³
CAS: 7440-50-8	copper	200 mg/m³
CAS: 7440-62-2	vanadium	35 mg/m³
CAS: 7440-66-6	Zinc Metal	120 mg/m³
CAS: 7782-49-2	selenium	40 mg/m³

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 section 7.
- · Control parameters

· Components with limit values that require monitoring at the workplace:		
CAS: 7647-01-0 Hydrochloric Acid		
NIOSH RECOMENDED EXP LIMI	Ceiling limit value: 7.0 mg/m³ mg/m³	
PEL	Ceiling limit value: 7 mg/m³, 5 ppm	
REL	Ceiling limit value: 7 mg/m³, 5 ppm	
TLV	Ceiling limit value: 2 ppm	
	A4	

- · 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.

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1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

(Contd. of page 6)

Store protective clothing separately.

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

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	Clear
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	<2
· 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.
· Ignition temperature:	Product is not selfigniting.

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Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

		(Contd. of page 7
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.04827 g/cm³ (8.74781 lbs/gal)	
Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wa	t ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	86.0 %	
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.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

(Contd. on page 9)

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Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na 2804)

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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)	
CAS: 7439-92-1 lead powder [particle diameter < 1 mm]	2B
CAS: 7440-02-0 Nickel Metal	2 <i>B</i>
CAS: 7440-38-2 arsenic	1
CAS: 7440-41-7 beryllium	1
CAS: 7440-43-9 cadmium Metal	1
CAS: 7440-47-3 chromium	3
CAS: 7440-48-4 cobalt	2 <i>B</i>
CAS: 7782-49-2 selenium	3
· NTP (National Toxicology Program)	
CAS: 7439-92-1 lead powder [particle diameter < 1 mm]	R
CAS: 7440-02-0 Nickel Metal	R
CAS: 7440-38-2 arsenic	K
CAS: 7440-41-7 beryllium	K
CAS: 7440-43-9 cadmium Metal	K
CAS: 7440-48-4 cobalt	R
· OSHA-Ca (Occupational Safety & Health Administration)	·
CAS: 7440-38-2 arsenic	
CAS: 7440-43-9 cadmium Metal	

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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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

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Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

(Contd. of page 9)

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

141	Transport	inf	ormat	ion

	U_{L}	N-	N	un	nb	er
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· IMDG, IATA

· DOT, IMDG, IATA

UN1760

· UN proper shipping name

 $\cdot DOT$

Corrosive liquids, n.o.s. (Hydrochloric Acid)

CORROSIVE LIQUID, N.O.S. (Hydrochloric Acid)

· Transport hazard class(es)

 $\cdot DOT$



· Class 8 Corrosive substances

· Label

· IMDG, IATA



· Class 8 Corrosive substances

· Label

· Packing group

· DOT, IMDG, IATA III

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Warning: Corrosive substances

• EMS Number: F-A,S-B

· Stowage Category A

· Stowage Code SW2 Clear of living quarters.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

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1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

(Contd. of page 10)

· UN "Model Regulation": UN 1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID),

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

· Section 355 (exti	· Section 355 (extremely hazardous substances):		
CAS: 7697-37-2	Nitric Acid		
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution		
· Section 313 (Spe	cific toxic chemical listings):		
CAS: 7697-37-2	Nitric Acid		
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution		
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]		
CAS: 7439-96-5	manganese		
CAS: 7440-02-0	Nickel Metal		
CAS: 7440-28-0	thallium		
CAS: 7440-36-0	Antimony Metal		
CAS: 7440-38-2	arsenic		
CAS: 7440-41-7	beryllium		
CAS: 7440-43-9	cadmium Metal		
CAS: 7440-47-3	chromium		
CAS: 7440-48-4	cobalt		
CAS: 7440-50-8	copper		
CAS: 7440-62-2	vanadium		
CAS: 7440-66-6	Zinc Metal		
CAS: 7782-49-2	selenium		

Water	ACTIV.
Hydrochloric Acid	ACTIV.
Sodium Chloride	ACTIV
Nitric Acid	ACTIV
Sodium Sulfate Anhydrous	ACTIV
L-Tartaric Acid	ACTIV
Hydrofluoric Acid 49-51% Aqueous Solution	ACTIV
boric acid	ACTIV
Iron Metal	ACTIV
lead powder [particle diameter < 1 mm]	ACTIV
lithium	ACTIV
Magnesium	ACTIV
manganese	ACTIV

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Trade name: Caustic Method High Std 1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

strontium Metal	Molybdenum Met	al, 99.8%	(Contd. of page ACTI
strontium Metal	Nickel Metal		ACTI
Fitanium Metal Antimony Metal Arsenic beryllium cadmium Metal chromium cobalt copper commandium Zinc Metal Calcium Metal celenium Zinc Metal Calcium Metal celenium CAS: 7647-01-0 Hydrochloric Acid CAS: 7644-39-3 Hydrofluoric Acid 49-51% Aqueous Solution CAS: 7439-92-1 lead powder [particle diameter < 1 mm] CAS: 7439-96-5 manganese CAS: 7440-48-4 cobalt Proposition 65 Chemicals known to cause cancer: CAS: 7440-43-9 cad powder [particle diameter < 1 mm] CAS: 7440-43-9 cad powder [particle diameter < 1 mm] CAS: 7440-43-9 cad powder [particle diameter < 1 mm] CAS: 7440-43-9 cad powder [particle diameter < 1 mm] CAS: 7440-43-9 cad powder [particle diameter < 1 mm] CAS: 7440-43-9 cad powder [particle diameter < 1 mm] CAS: 7440-43-9 cadmium Metal Chemicals known to cause reproductive toxicity for females: Vonc of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: CAS: 7440-43-9 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-43-9 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-33-5 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-35-5 manganese D CAS: 7439-96-5 manganese D	strontium		ACTI
Antimony Metal arsenic	thallium		ACTI
arsenic peryllium personal per	Titanium Metal		ACTI
Peryllium Peral Proposition Pr	Antimony Metal		ACTI
radmium Metal chromium cobalt copper	arsenic		ACTI
chromium cobalt copper anadium color detal Calcium Metal calcium Metal calcium	beryllium		ACTI
copper conadium cinc Metal calcium Metal calcium Metal cas: 7647-01-0 Hydrochloric Acid CAS: 7647-01-0 Hydrochloric Acid 49-51% Aqueous Solution CAS: 7439-92-1 lead powder [particle diameter < 1 mm] cas: 7439-96-5 manganese cAS: 7440-48-4 cobalt cas: 7440-02-0 Nickel Metal cAS: 7440-02-0 Nickel Metal cAS: 7440-43-9 cadmium Metal cAS: 7440-48-4 cobalt chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: CAS: 7440-43-9 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-43-9 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-43-9 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-43-9 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-43-9 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-43-9 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-3-5 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7440-3-5 cadmium Metal Chemicals known to cause developmental toxicity: CAS: 7439-96-5 manganese D I (oral) manganese	cadmium Metal		ACTI
copper canadium calcium Metal calcium calciu	chromium		ACTI
Zinc Metal Zinc Michael Z	cobalt		ACTI
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CAS: 7439-96-5 manganese D			
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TANA (AAH 28 I Janaania			
	CAS: 7440-38-2 CAS: 7440-41-7	arsenic	A B1, K/L(inh), CBD(or

Printing date 05/24/2024 Reviewed on 05/24/2024

Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

		(Contd.	of page
CAS: 7440-43-9	cadmium Metal	B1	
CAS: 7440-47-3	chromium	D	
CAS: 7440-50-8	copper	D	
CAS: 7440-66-6	Zinc Metal	D, I, II	
CAS: 7782-49-2	selenium	D	
TLV (Threshold I	imit Value)	·	
CAS: 10043-35-3	boric acid		
CAS: 7439-98-7	Molybdenum Metal, 99.8%		
CAS: 7440-02-0	Nickel Metal		
CAS: 7440-38-2	arsenic		
CAS: 7440-41-7	beryllium		
CAS: 7440-43-9	cadmium Metal		
CAS: 7440-47-3	chromium		
CAS: 7440-48-4	cobalt		
NIOSH-Ca (Natio	onal Institute for Occupational Safety and Health)		
CAS: 7440-02-0	Nickel Metal		
CAS: 7440-38-2 d	ursenic		
CAS: 7440-41-7 l	peryllium		
CAS: 7440-43-9 d	cadmium Metal		

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





GHS05 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Hydrochloric Acid

· Hazard statements

Causes severe skin burns and eye damage.

May cause damage to organs through prolonged or repeated exposure.

· 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).

Get medical advice/attention if you feel unwell.

Wash contaminated clothing before reuse.

Store locked up.

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

(Contd. on page 14)

Printing date 05/24/2024 Reviewed on 05/24/2024

Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

(Contd. of page 13)

· 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:

Date of Preparation / Last Revision:

· Date of preparation / last revision

Revision 1.2, 05/24/2024: Reviewed SDS for accuracy. MH/STN

Creation date for SDS 12-29-2014. STN

05/24/2024

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

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) 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 Corrosion 1A: Skin corrosion/irritation - Category 1A

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2

* Data compared to the previous version altered.

US