Printing date 12/19/2017 Reviewed on 12/19/2017

1 Identification

· Product identifier

· Trade name: Caustic Method High Std

1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na 2504)

· 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

· Information department:

Technical Coordinator

Sherman Nelson sherman@aquasolutions.org

· Emergency telephone number:

Chemtrec: 800-424-9300 Canutec: 613-996-6666



2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · 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

· Hazard statements

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).

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

(Contd. of page 1)

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 = 2Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



2 Health = 2 Fire = 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.

CAS: 7647-01-0 Hydrochloric Acid		7.021%
Table of Nonhaza	rdous Ingredients	
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	0.0005%
CAS: 7440-62-2	vanadium	0.0001%
CAS: 7782-49-2	selenium	0.0001%
CAS: 7440-43-9	cadmium Metal	0.0001%
CAS: 7440-41-7	beryllium	0.0001%
CAS: 7440-24-6	strontium	0.0001%
CAS: 7440-48-4	cobalt	0.0001%
CAS: 7440-47-3	chromium	0.0001%
CAS: 7439-89-6	Iron Metal	0.0001%
CAS: 7440-38-2	arsenic	0.0001%
CAS: 7440-50-8	copper	0.0001%
CAS: 7439-92-1	Lead Shot #8	0.0001%
CAS: 7440-32-6	Titanium Metal	0.0001%
CAS: 7440-02-0	Nickel Metal	0.0001%

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

		(Contd. of page 2)
CAS: 7439-96-5	manganese	0.0001%
CAS: 7440-66-6	Zinc Metal	0.0001%
CAS: 7440-28-0	thallium	0.0001%
CAS: 7439-98-7	Molybdenum Metal, 99.8%	0.0001%
CAS: 7439-95-4	Magnesium	0.0001%
CAS: 7440-36-0	Antimony Metal	0.0001%
CAS: 7439-93-2	lithium	0.0001%
CAS: 7440-70-2	Calcium Metal	0.0001%
CAS: 7732-18-5	Water	86.0228%

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- \cdot 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.
- $\cdot \textit{Indication of any immediate medical attention and special treatment needed}$

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 No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Dilute with plenty of 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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Trade name: Caustic Method High Std 1.0 ug/ml Metals w/ Boron (443.75 ug/ml Na₂so₄)

PAC-1:		
	Hydrochloric Acid	1.8 ppm
CAS: 7697-37-2	Nitric Acid	0.16 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	9.8 mg/m ³
CAS: 87-69-4	L-Tartaric Acid	1.6 mg/m ³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	1.0 ppm
CAS: 10043-35-3	Boric Acid	6 mg/m ³
CAS: 7440-62-2	vanadium	3 mg/m³
CAS: 7782-49-2	selenium	0.6 mg/m³
CAS: 7440-43-9	cadmium Metal	0.10 mg/m^3
CAS: 7440-41-7	beryllium	0.0023 mg/m
CAS: 7440-24-6	strontium	30 mg/m³
CAS: 7440-48-4	cobalt	$0.18 mg/m^3$
CAS: 7440-47-3	chromium	1.5 mg/m³
CAS: 7439-89-6	Iron Metal	$3.2 mg/m^3$
CAS: 7440-38-2	arsenic	1.5 mg/m³
CAS: 7440-50-8	copper	3 mg/m ³
CAS: 7439-92-1	Lead Shot #8	0.15 mg/m^3
CAS: 7440-32-6	Titanium Metal	30 mg/m³
CAS: 7440-02-0	Nickel Metal	4.5 mg/m³
CAS: 7439-96-5	manganese	3 mg/m ³
CAS: 7440-66-6	Zinc Metal	6 mg/m ³
CAS: 7440-28-0	thallium	$0.06 \ mg/m^3$
CAS: 7439-98-7	Molybdenum Metal, 99.8%	30 mg/m³
CAS: 7439-95-4	Magnesium	18 mg/m³
CAS: 7440-36-0	Antimony Metal	1.5 mg/m^3
CAS: 7439-93-2	lithium	3.3 mg/m³
PAC-2:		
	Hydrochloric Acid	22 ppm
CAS: 7697-37-2	_ ·	24 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	110 mg/m^3
CAS: 87-69-4	L-Tartaric Acid	17 mg/m^3
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	24 ppm
CAS: 10043-35-3		23 mg/m^3
CAS: 7440-62-2	vanadium	$5.8 mg/m^3$
CAS: 7782-49-2	selenium	6.6 mg/m^3
CAS: 7440-43-9	cadmium Metal	0.76 mg/m^3
CAS: 7440-41-7	beryllium	0.025 mg/m
CAS: 7440-24-6	strontium	330 mg/m^3
CAS: 7440-48-4	cobalt	2 mg/m^3
CAS: 7440-47-3	chromium	17 mg/m^3

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

CAS 7420 00 C	1 M . I	(Contd. of page
CAS: 7439-89-6	Iron Metal	35 mg/m^3
CAS: 7440-38-2	arsenic	17 mg/m^3
CAS: 7440-50-8	copper	33 mg/m ³
CAS: 7439-92-1	Lead Shot #8	120 mg/m³
CAS: 7440-32-6	Titanium Metal	330 mg/m³
CAS: 7440-02-0	Nickel Metal	50 mg/m^3
CAS: 7439-96-5	manganese	5 mg/m ³
CAS: 7440-66-6	Zinc Metal	21 mg/m³
CAS: 7440-28-0	thallium	3.3 mg/m^3
CAS: 7439-98-7	Molybdenum Metal, 99.8%	330 mg/m³
CAS: 7439-95-4	Magnesium	200 mg/m³
CAS: 7440-36-0	Antimony Metal	13 mg/m³
CAS: 7439-93-2	lithium	36 mg/m³
PAC-3:		·
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	B Boric Acid	830 mg/m³
CAS: 7440-62-2	vanadium	35 mg/m³
CAS: 7782-49-2	selenium	40 mg/m³
CAS: 7440-43-9	cadmium Metal	4.7 mg/m ³
CAS: 7440-41-7	beryllium	0.1 mg/m^3
CAS: 7440-24-6	strontium	2,000 mg/m
CAS: 7440-48-4	cobalt	20 mg/m ³
CAS: 7440-47-3	chromium	99 mg/m³
CAS: 7439-89-6	Iron Metal	150 mg/m^3
CAS: 7440-38-2	arsenic	100 mg/m^3
CAS: 7440-50-8	copper	200 mg/m³
CAS: 7439-92-1		700 mg/m³
CAS: 7440-32-6	Titanium Metal	2,000 mg/m
CAS: 7440-02-0	Nickel Metal	99 mg/m³
CAS: 7439-96-5		1,800 mg/m
CAS: 7440-66-6	Zinc Metal	120 mg/m^3
CAS: 7440-28-0	thallium	20 mg/m^3
CAS: 7439-98-7	Molybdenum Metal, 99.8%	2,000 mg/m
CAS: 7439-95-4	Magnesium	1,200 mg/m
CAS: 7440-36-0	-	80 mg/m ³
CAS: 7439-93-2	lithium	220 mg/m 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 5)

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · 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:		
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: 2.98 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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- · 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.

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(Contd. of page 6)

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chomical properties	
General Information	chemical properties	
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.	
Ignition temperature:		
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 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/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	86.0 %	

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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)
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gl	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- $\cdot \textit{Reactivity No further relevant information available}.$
- · 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:

ATE (Acute Toxicity Estimate)

Oral LD50 54,597 mg/kg (rat)

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

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 (Internatio	nal Agency for Research on Cancer)	
CAS: 7782-49-2	selenium	3
CAS: 7440-43-9	cadmium Metal	1
CAS: 7440-41-7	beryllium	1
CAS: 7440-48-4	cobalt	2B
CAS: 7440-47-3	chromium	3
CAS: 7440-38-2		1
CAS: 7439-92-1	Lead Shot #8	2B
CAS: 7440-02-0	Nickel Metal	2B

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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 8)
· NTP (National T	Toxicology Program)	
CAS: 7440-43-9	cadmium Metal	K
CAS: 7440-41-7	beryllium	K
CAS: 7440-48-4	cobalt	R
CAS: 7440-38-2	arsenic	K
CAS: 7439-92-1	Lead Shot #8	R
CAS: 7440-02-0	Nickel Metal	R
· OSHA-Ca (Occi	upational Safety & Health Administration)	
CAS: 7440-43-9	cadmium Metal	
CAS: 7440-38-2	arsenic	

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:

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.

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.

14 Transport information		
· UN-Number · DOT, IMDG, IATA	UN1760	
· UN proper shipping name · DOT	Corrosive liquids, n.o.s. (Hydrochloric acid)	

(Contd. on page 10)

(Contd. of page 9)

Safety Data Sheet acc. to OSHA HCS

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Trade name: Caustic Method High Std

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

Transport hazard class(es)

DOT

Class
Label

Class
Label

Class

Class

B Corrosive substances

8

Class

IMDG, IATA

Class

Class

B Corrosive substances

8

Class

IMDG, IATA

III

· DOT, IMDG, IATA

III

· Environmental hazards:
· Marine pollutant:

No

· Special precautions for user
· EMS Number:
· F-A,S-B
· Stowage Category
· Stowage Code

· SW2 Clear of living quarters.

MARPOL73/78 and the IBC Code Not applicable.

• UN "Model Regulation": UN 1760 CORROSIVE LIQUIDS, N.O.S. (HYDROCHLORIC ACID), 8, III

15 Regulatory information

CAS: 7440-43-9 cadmium Metal CAS: 7440-41-7 beryllium

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

· Sara		
· Section 355 (extremely hazardous substances):		
CAS: 7697-37-2	Nitric Acid	
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	
· Section 313 (Specific toxic chemical listings):		
CAS: 7697-37-2	Nitric Acid	
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	
CAS: 7440-62-2	vanadium	
CAS: 7782-49-2	selenium	

(Contd. on page 11)

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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	10)
CAS: 7440-48-4	cobalt	(**************************************	
CAS: 7440-47-3	chromium		
CAS: 7440-38-2	arsenic		
CAS: 7440-50-8	copper		
CAS: 7439-92-1	Lead Shot #8		
CAS: 7440-02-0	Nickel Metal		
CAS: 7439-96-5	manganese		
CAS: 7440-66-6	Zinc Metal		
CAS: 7440-28-0	thallium		
CAS: 7440-36-0	Antimony Metal		\neg
· TSCA (Toxic Su	bstances Control Act):		ī
Hydrochloric Ac	id		
Sodium Chloride	,		
Nitric Acid			
Sodium Sulfate A	nhydrous		
L-Tartaric Acid			
	id 49-51% Aqueous Solution		
Boric Acid			
vanadium			
selenium			
cadmium Metal			
beryllium			
strontium			
cobalt			
chromium			
Iron Metal			
arsenic			
copper			
Lead Shot #8			
Titanium Metal			
Nickel Metal			
manganese			
Zinc Metal			
thallium			
Molybdenum Me	tal, 99.8%		
Magnesium			
Antimony Metal			
lithium			
Calcium Metal			
Water			
		(Contd. on page	12)

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(Contd. of page 11)

	· TSCA new (21st Century Act) (Substances not listed) · Proposition 65						
· Chemicals known to cause cancer:		n to cause cancer:					
	CAS: 7440-43-9	cadmium Metal					
	CAS: 7440-41-7	beryllium					
	CAS: 7440-48-4	cobalt					
	CAS: 7440-38-2						
Ī	CAS: 7439-92-1	Lead Shot #8					

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

CAS: 7440-02-0 Nickel Metal

· 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

· Carcinogenic categories

· EPA (Environmental Protection Agency)				
CAS: 10043-35-3	Boric Acid	I (oral)		
CAS: 7782-49-2	selenium	D		
CAS: 7440-43-9	cadmium Metal	B1		
CAS: 7440-41-7	beryllium	B1, K/L(inh), CBD(oral)		
CAS: 7440-47-3	chromium	D		
CAS: 7440-38-2	arsenic	A		
CAS: 7440-50-8	copper	D		
CAS: 7439-96-5	manganese	D		
CAS: 7440-66-6	Zinc Metal	D, I, II		

· TLV (Threshold Limit Value established by ACGIH)					
CAS: 10043-35-3	Boric Acid	A4			
CAS: 7440-43-9	cadmium Metal	A2			
CAS: 7440-41-7	beryllium	A1			
CAS: 7440-48-4	cobalt	A3			
CAS: 7440-47-3	chromium	A4			
CAS: 7440-38-2	arsenic	A1			
CAS: 7440-02-0	Nickel Metal	A5			
CAS: 7439-98-7	Molybdenum Metal, 99.8%	A3			

· NIOSH-Ca (National Institute for Occupational Safety and Health)				
CAS: 7440-43-9	cadmium Metal			
CAS: 7440-41-7	beryllium			
CAS: 7440-38-2	arsenic			
CAS: 7440-02-0	Nickel Metal			

[•] GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 13)

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Trade name: Caustic Method High Std

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(Contd. of page 12)

· Hazard pictograms



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

Hydrochloric Acid

· Hazard statements

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:
- · Date of preparation / last revision

12-19-2017: review SDS for accuracy. STN

Creation date for SDS 12-29-2014. STN

12/19/2017 / -

· 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

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Printing date 12/19/2017 Reviewed on 12/19/2017

Trade name: Caustic Method High Std

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

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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

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