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1 Identification
· Product identifier
• Trade name: <u>Certified Waste Water Trace Metals B</u>
· Article number: CWW-TM-B
 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 numbers1-800-535-5053 Other emergency telephone numbers 1-352-323-3500
Classification of the substance or mixture GHS05 Corrosion
Met. Corr.1 H290 May be corrosive to metals.
Met. Corr.1 H290 May be corrosive to metals. Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
GHS07
Acute Tox. 4 H312 Harmful in contact with skin.
 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: nitric acid

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	(Contd. of page
hydrogen fli	
Hazard stat	
	corrosive to metals.
	in contact with skin.
	evere skin burns and eye damage.
Precautiona	
	riginal container.
	e dusts or mists.
	hly after handling.
	e gloves/protective clothing/eye protection/face protection.
	Rinse mouth. Do NOT induce vomiting.
	air): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	Remove person to fresh air and keep comfortable for breathing.
	se cautiously with water for several minutes. Remove contact lenses, if present and easy to a
Continue rin	
	all a poison center/doctor.
	ent (see on this label).
	ninated clothing and wash it before reuse.
	nated clothing before reuse.
	e to prevent material damage.
Store locked	
	vive resistant container with a resistant inner liner.
	tents/container in accordance with local/regional/national/international regulations.
Classificatio	
NFPA ratin	(scale 0 - 4)
	Health = 3
	Fire = 0
3	Reactivity = 0
	Xedcuvny – 0
HMIS-ratin	(scale 0 - 4)
HEALTH	Health = 3
FIRE	Fire = 0
	Reactivity = 0
REACTIVITY	Keacuvity = 0
Other hazar	T and vPvB assessment
• • • •	
Results of P	icable.
Results of P PBT: Not ap	
Other hazar Results of P PBT: Not ap vPvB: Not a	
Results of P PBT: Not ap vPvB: Not a	

• Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

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		(Contd. c	of page 2
	components:		
7697-37-2			10.0%
7664-39-3	hydrofluoric acid		0.49%
Chemical id	lentification of the substance/preparation		
7732-18-5	water, distilled, conductivity or of similar purity	89.	478%
513-77-9	barium carbonate	0.0	002%
6156-78-1	Manganese(II) acetate tetrahydrate	0.0	002%
7429-90-5	aluminium	0.0	002%
7439-89-6	iron	0.0	002%
7439-92-1	lead	0.0	002%
7439-98-7	molybdenum	0.0	002%
7440-02-0	nickel	0.0	002%
7440-47-3	chromium	0.0	002%
7440-48-4	cobalt	0.0	002%
7440-50-8	copper	0.0	002%
7440-66-6	zinc	0.0	002%
7803-55-6	Ammonium Vanadate	0.0	002%
10042-76-9	strontium nitrate	0.0	002%
10043-35-3	boric acid	0.0	002%
543-81-7	beryllium acetate	0.0	005%
7440-22-4	silver	0.0	005%
7440-28-0	thallium	0.0	005%
7440-36-0	antimony	0.0	005%
7440-38-2	arsenic	0.0	005%
7440-43-9	cadmium	0.0	005%
7782-49-2	selenium	0.0	005%
7439-97-6	mercury	0.00	0005%

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.

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· Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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: 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 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

7697-37-2 nitric acid	0.16 ppm
513-77-9 barium carbonate	2.2 mg/m ³
6156-78-1 Manganese(II) acetate tetrahydrate	13 mg/m ³
7439-89-6 iron	3.2 mg/m ³
7439-92-1 lead	0.15 mg/m
7439-98-7 molybdenum	30 mg/m ³
7440-02-0 nickel	4.5 mg/m ³
7440-47-3 chromium	1.5 mg/m ³
7440-48-4 cobalt	0.18 mg/m

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7440-50-8 copper	(Contd. of page 3 mg/m ³
7440-66-6 zinc	6 mg/m ³
7803-55-6 Ammonium Vanadate	0.01 mg/n
10042-76-9 strontium nitrate	5.7 mg/m [±]
10043-35-3 boric acid	6 mg/m ³
7440-22-4 silver	0.3 mg/m^{\pm}
7440-28-0 thallium	0.06 mg/n
7440-36-0 antimony	1.5 mg/m [±]
7440-38-2 arsenic	1.5 mg/m ⁻
7440-43-9 cadmium	0.10 mg/n
7782-49-2 selenium	0.6 mg/m ²
7439-97-6 mercury	0.15 mg/n
PAC-2:	
7697-37-2 nitric acid	24 ppm
513-77-9 barium carbonate	270 mg/m
6156-78-1 Manganese(II) acetate tetrahydrate	22 mg/m ³
7439-89-6 iron	35 mg/m ³
7439-92-1 lead	120 mg/m
7439-98-7 molybdenum	330 mg/m
7440-02-0 nickel	50 mg/m ³
7440-47-3 chromium	17 mg/m ³
7440-48-4 cobalt	$2 mg/m^3$
7440-50-8 copper	33 mg/m ³
7440-66-6 zinc	21 mg/m ³
7803-55-6 Ammonium Vanadate	0.11 mg/n
10042-76-9 strontium nitrate	62 mg/m ³
10043-35-3 boric acid	23 mg/m ³
7440-22-4 silver	170 mg/m
7440-28-0 thallium	3.3 mg/m
7440-36-0 antimony	13 mg/m ³
7440-38-2 arsenic	17 mg/m ³
7440-43-9 cadmium	0.76 mg/n
7782-49-2 selenium	6.6 mg/m ²
7439-97-6 mercury	1.7 mg/m ²
PAC-3:	
7697-37-2 nitric acid	92 ppm
513-77-9 barium carbonate	1,600 mg/n



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6156-78-1 Manganese(II) acetate tetrahydrate	740 mg/m ³
7439-89-6 iron	150 mg/m ³
7439-92-1 lead	700 mg/m ³
7439-98-7 molybdenum	2,000 mg/m ³
7440-02-0 nickel	99 mg/m ³
7440-47-3 chromium	99 mg/m ³
7440-48-4 cobalt	20 mg/m ³
7440-50-8 copper	200 mg/m ³
7440-66-6 zinc	120 mg/m ³
7803-55-6 Ammonium Vanadate	80 mg/m ³
10042-76-9 strontium nitrate	370 mg/m ³
10043-35-3 boric acid	830 mg/m ³
7440-22-4 silver	990 mg/m ³
7440-28-0 thallium	20 mg/m ³
7440-36-0 antimony	80 mg/m ³
7440-38-2 arsenic	100 mg/m ³
7440-43-9 cadmium	$4.7 mg/m^3$
7782-49-2 selenium	40 mg/m ³
7439-97-6 mercury	$8.9 mg/m^3$

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.

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Cont	trol parameters
Com	ponents with limit values that require monitoring at the workplace:
7697	7-37-2 nitric acid
PEL	Long-term value: 5 mg/m ³ , 2 ppm
REL	Short-term value: 10 mg/m ³ , 4 ppm
	Long-term value: 5 mg/m ³ , 2 ppm
TLV	Short-term value: 10 mg/m ³ , 4 ppm
	Long-term value: 5.2 mg/m ³ , 2 ppm
7664	-39-3 hydrofluoric acid
PEL	Long-term value: 3 ppm
	as F
REL	Long-term value: 2.5 mg/m ³ , 3 ppm
	Ceiling limit value: 5* mg/m ³ , 6* ppm
	*15-min, as F
TLV	Long-term value: 0.41 mg/m ³ , 0.5 ppm
	Ceiling limit value: 1.64 mg/m ³ , 2 ppm
	as F; Skin; BEI
•	edients with biological limit values:
7664	1-39-3 hydrofluoric acid
	3 mg/g creatinine
	Medium: urine
	Time: prior to shift
	Parameter: Flourides (background)
	10 mg/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: Flourides (background)
Addi	tional information: The lists that were valid during the creation were used as basis.
Expo	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
	o away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	d contact with the eyes.
	d contact with the eyes and skin. t hing equipment:
	aning equipment: use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us
resni	iratory protective device that is independent of circulating air.

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• 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

9 Physical and chemical properties

General Information		
Appearance: Form:	Liquid	
Form: Color:	Liquid colorless	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 83 °C (181.4 °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:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	89.5 %	
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.

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• Sensitization: No sensitizing effects known.

• Additional toxicological information:

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

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 (Inte	ernational Agency for Research on Cancer)	
7439-92-1	lead	2B
7440-02-0	nickel	2B
7440-47-3	chromium	3
7440-48-4	cobalt	2B
543-81-7	beryllium acetate	1
7440-38-2	arsenic	1
7440-43-9	cadmium	1
7782-49-2	selenium	3
7439-97-6	mercury	3
· NTP (Nati	onal Toxicology Program)	
7439-92-1	lead	R
7440-02-0	nickel	R
7440-48-4	cobalt	R
543-81-7	beryllium acetate	K
7440-38-2	arsenic	K
7440-43-9	cadmium	K
· OSHA-Ca	Occupational Safety & Health Administration)	
7440-38-2	arsenic	
7440-43-9	cadmium	

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.

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

· UN-Number · DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name · DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid
ADR	Hydrofluoric acid) 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O., (NITRIC ACID, HYDROFLUORIC ACID)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRI ACID, HYDROFLUORIC ACID)
· Transport hazard class(es)	
· DOT	
· Class	8 Corrosive substances

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Label	8
ADR	
\wedge	
State of the state	
Class	8 (C1) Corrosive substances
Label	8
IMDG, IATA	
1 Alexandre and a second se	
\mathbf{V}	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ĂĎR, ÎMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
EMS Number:	F-A,S-B
Segregation groups	Acids
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
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
2	On cargo aircraft only: 30 L
ADR	
Excepted quantities (EQ)	Code: E2
Enception quantumes (122)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 50 ml
IMDG	1 1 1 0 0
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
Exception quantumes (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 50 ml
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· UN "Model Regulation":

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROFLUORIC ACID), 8, II

15 Regulatory information

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

7697-37-2	nitric acid	
Section 313	(Specific toxic chemical listings):	
	nitric acid	
513-77-9	barium carbonate	
7429-90-5	aluminium	
7439-92-1	lead	
7440-02-0	nickel	
7440-47-3	chromium	
7440-48-4	cobalt	
7440-50-8	copper	
7440-66-6	zinc	
7803-55-6	Ammonium Vanadate	
10042-76-9	strontium nitrate	
543-81-7	beryllium acetate	
7440-22-4	silver	
7440-28-0	thallium	
7440-36-0		
7440-38-2		
7440-43-9		
7782-49-2		
7439-97-6	mercury	
TSCA (Toxi	c Substances Control Act):	
7732-18-5	water, distilled, conductivity or of similar purity	ACTIV
7697-37-2	nitric acid	ACTIV
513-77-9	barium carbonate	ACTIV
7429-90-5	aluminium	ACTIV
7439-89-6	iron	ACTIV
7439-92-1		ACTIV
7439-98-7	molybdenum	ACTIV



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7440-02-0	nickel	ACTIVE
7440-47-3	chromium	ACTIVE
7440-48-4	cobalt	ACTIVE
7440-50-8	copper	ACTIVE
7440-66-6	zinc	ACTIVE
7803-55-6	Ammonium Vanadate	ACTIVE
10042-76-9	strontium nitrate	ACTIVE
10043-35-3	boric acid	ACTIVE
7440-22-4	silver	ACTIVE
7440-28-0	thallium	ACTIVE
7440-36-0	antimony	ACTIVE
7440-38-2	arsenic	ACTIVE
7440-43-9	cadmium	ACTIVE
7782-49-2		ACTIVE
7439-97-6	mercury	ACTIVE
· Hazardous A	Air Pollutants	· · · · · ·
7439-92-1 l	ead	
7440-48-4 с	obalt	
· Proposition	65	
· Chemicals k	nown to cause cancer:	
7439-92-1 l	ead	
7440-02-0 n	ickel	
7440-48-4 с	obalt	
543-81-7 b	peryllium acetate	
7440-38-2 a	irsenic	
7440-43-9 с	admium	
· Chemicals k	nown to cause reproductive toxicity for females:	
7439-92-1 l	ead	
· Chemicals k	nown to cause reproductive toxicity for males:	
7439-92-1 l		
7440-43-9 с	admium	
· Chemicals k	nown to cause developmental toxicity:	
7439-92-1 l	- · ·	
1 1 2 7 7 2 1 1		
7440-43-9 c	radmium	



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Carcinogon	ic categories	(Contd. of page 1		
· Carcinogenic categories · EPA (Environmental Protection Agency)				
	barium carbonate	D, CBD(inh), NL(oral		
7439-92-1	lead	<i>B2</i>		
7440-47-3	chromium	D		
7440-50-8	copper	D		
7440-66-6	zinc	D, I, II		
10043-35-3	boric acid	I (oral)		
7440-22-4	silver	D		
7440-38-2	arsenic	A		
7440-43-9	cadmium	BI		
7782-49-2	selenium	D		
7439-97-6	mercury	D		
TLV (Thres	hold Limit Value established by ACGIH)			
513-77-9	barium carbonate	A		
7429-90-5	aluminium	A		
7439-92-1	lead	А.		
7439-98-7	molybdenum	А.		
7440-02-0	nickel	A.		
7440-47-3	chromium	A		
7440-48-4	cobalt	А.		
10043-35-3	boric acid	A		
7440-38-2	arsenic	A		
7440-43-9	cadmium	A		
7439-97-6	mercury	A		
NIOSH-Ca	National Institute for Occupational Safety and H	lealth)		
7440-02-0	nickel			
543-81-7	beryllium acetate			
7440-38-2	ursenic			
7440-43-9	cadmium			

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



· Signal word Danger

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(Contd. of page 15) · Hazard-determining components of labeling: nitric acid hydrogen fluoride · Hazard statements H290 May be corrosive to metals. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. · Precautionary statements Keep only in original container. 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). Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Store locked up. Store in corrosive resistant container with a resistant inner liner. 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 01/04/2021 / -· 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) (Contd. on page 17)

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Trade name: Certified Waste Water Trace Metals B

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 BEI: Biological Exposure Limit Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 (Contd. of page 16)

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