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### Safety Data Sheet acc. to OSHA HCS

Printing date 05/14/2021 Reviewed on 05/14/2021

#### 1 Identification

· Product identifier

· Trade name: Certified Waste Water Trace Metals F

· Article number: CWW-TM-F

· 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 1-800-535-5053 Other emergency telephone numbers 1-352-323-3500

#### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

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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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.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 3Fire = 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.

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Dangerous	components:	(Conta.	of page
7697-37-2	=		10.0%
	hydrogen fluoride		0.49%
	dentification of the substance/preparation		
	water, distilled, conductivity or of similar purity	89	0.433%
7439-92-1	7 7 7		0.01%
7440-02-0	nickel		0.01%
7440-39-3	barium	(	0.01%
7440-42-8	boron	(	0.01%
7440-47-3	chromium	(	0.01%
7440-50-8	copper	(	0.01%
7440-66-6	zinc	(	0.01%
7440-22-4	silver	0.	0025%
7440-36-0	antimony	0.	0025%
7429-90-5	aluminium	0.0	000259
7439-89-6	iron	0.0	000259
7439-96-5	manganese	0.0	000259
7439-98-7	molybdenum	0.0	000259
7440-24-6	strontium	0.0	000259
7440-28-0	thallium	0.0	00025%
7440-48-4	cobalt	0.0	00025%
7440-62-2	vanadium	0.0	000259
7439-97-6			0002%
7440-43-9	cadmium	0.0	00005%
7440-41-7	beryllium	0.0	000059

#### 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.

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· 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

<i>PAC-1</i> :	
7697-37-2 nitric acid	0.16 ppm
7664-39-3 hydrogen fluoride	1.0 ppm
7439-92-1 lead	$0.15 \text{ mg/m}^3$
7440-02-0 nickel	$4.5 \text{ mg/m}^3$
7440-39-3 barium	$1.5 \text{ mg/m}^3$
7440-42-8 boron	$1.9 \text{ mg/m}^3$
7440-47-3 chromium	$1.5 \text{ mg/m}^3$
7440-50-8 copper	$3 mg/m^3$
7440-66-6 zinc	6 mg/m <sup>3</sup>
7440-22-4 silver	$0.3 \text{ mg/m}^3$
7440-36-0 antimony	$1.5 \text{ mg/m}^3$
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7420 00 6	2	(Contd. of page
7439-89-6		$3.2 \text{ mg/m}^3$
7439-96-5		$3 mg/m^3$
	molybdenum	$30 \text{ mg/m}^3$
7440-24-6		$30 \text{ mg/m}^3$
7440-28-0		$0.06 \text{ mg/m}^3$
7440-48-4		$0.18 \text{ mg/m}^3$
7440-62-2		$3 \text{ mg/m}^3$
7439-97-6	mercury	$0.15 \text{ mg/m}^3$
7440-38-2	arsenic	$1.5 \text{ mg/m}^3$
7440-41-7	beryllium	0.0023 mg/m
7440-43-9	cadmium	$0.10 \text{ mg/m}^3$
7782-49-2	selenium	$0.6 \text{ mg/m}^3$
<i>PAC-2:</i>		
7697-37-2	nitric acid	24 ppm
7664-39-3	hydrogen fluoride	24 ppm
7439-92-1	lead	$120 \text{ mg/m}^3$
7440-02-0	nickel	$50 \text{ mg/m}^3$
7440-39-3	barium	$180 \text{ mg/m}^3$
7440-42-8	boron	21 mg/m <sup>3</sup>
7440-47-3	chromium	17 mg/m³
7440-50-8	copper	33 mg/m³
7440-66-6	zinc	21 mg/m³
7440-22-4	silver	$170 \text{ mg/m}^3$
7440-36-0	antimony	13 mg/m <sup>3</sup>
7439-89-6	iron	$35 \text{ mg/m}^3$
7439-96-5	manganese	5 mg/m <sup>3</sup>
7439-98-7	molybdenum	$330 \text{ mg/m}^3$
7440-24-6	strontium	$330 \text{ mg/m}^3$
7440-28-0	thallium	$3.3 \text{ mg/m}^3$
7440-48-4	cobalt	$2 mg/m^3$
7440-62-2	vanadium	$5.8 \text{ mg/m}^3$
7439-97-6	mercury	$1.7 \text{ mg/m}^3$
7440-38-2	arsenic	$17 \text{ mg/m}^3$
7440-41-7	beryllium	0.025 mg/m
7440-43-9	•	$0.76 \text{ mg/m}^3$
7782-49-2	selenium	$6.6 \text{ mg/m}^3$





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PAC-3:	
7697-37-2 nitric acid	92 ppm
7664-39-3 hydrogen fluoride	44 ppm
7439-92-1 lead	$700 \text{ mg/m}^3$
7440-02-0 nickel	99 mg/m³
7440-39-3 barium	1,100 mg/m
7440-42-8 boron	$130 \text{ mg/m}^3$
7440-47-3 chromium	99 mg/m³
7440-50-8 copper	$200 \text{ mg/m}^3$
7440-66-6 zinc	120 mg/m³
7440-22-4 silver	990 mg/m³
7440-36-0 antimony	$80 \text{ mg/m}^3$
7439-89-6 iron	$150 \text{ mg/m}^3$
7439-96-5 manganese	1,800 mg/m
7439-98-7 molybdenum	2,000 mg/m
7440-24-6 strontium	2,000 mg/m
7440-28-0 thallium	$20 \text{ mg/m}^3$
7440-48-4 cobalt	$20 \text{ mg/m}^3$
7440-62-2 vanadium	$35 \text{ mg/m}^3$
7439-97-6 mercury	$8.9 \text{ mg/m}^3$
7440-38-2 arsenic	$100 \text{ mg/m}^3$
7440-41-7 beryllium	$0.1 \text{ mg/m}^3$
7440-43-9 cadmium	$4.7 \text{ mg/m}^3$
7782-49-2 selenium	$40 \text{ mg/m}^3$

#### 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.

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· 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:

#### 7697-37-2 nitric acid

- PEL Long-term value: 5 mg/m<sup>3</sup>, 2 ppm
- REL Short-term value: 10 mg/m³, 4 ppm
  - Long-term value: 5 mg/m³, 2 ppm
- TLV Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm
- 7664-39-3 hydrogen fluoride

### PEL Long-term value: 3 ppm

as F

REL Long-term value: 2.5 mg/m³, 3 ppm

Ceiling limit value: 5\* mg/m³, 6\* ppm

\*15-min, as F

TLV Long-term value: 0.41 mg/m³, 0.5 ppm

Ceiling limit value: 1.64 mg/m³, 2 ppm

as F; Skin, BEI

#### · Ingredients with biological limit values:

#### 7664-39-3 hydrogen fluoride

BEI 3 mg/g creatinine

Medium: urine Time: prior to shift

Parameter: Fluorides (background, nonspecific)

10 mg/g creatinine Medium: urine Time: end of shift

Parameter: Fluorides (background, nonspecific)

- 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.

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#### 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

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid
Color: colorless
Odor: Characteristic
Odor threshold: Not determined.

pH-value: Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:

\*\*Flash point:

\*\*Plash point:

\*\*Not applicable.

\*\*Not applicable.

\*\*Not applicable.

· **Decomposition temperature:** Not determined.

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· 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:	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	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	89.4 %	
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.

HS



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Trade name: Certified Waste Water Trace Metals F

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#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

#### 7664-39-3 hydrogen fluoride

Oral LD50 1,276 mg/kg (rat)

- 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: 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	28
7440-02-0	nickel	2B
7440-47-3	chromium	3
7440-48-4	cobalt	2B
7439-97-6	mercury	3
7440-38-2	arsenic	1
7440-41-7	beryllium	1
7440-43-9	cadmium	1
7782-49-2	selenium	3
· NTP (Nati	onal Toxicology Program)	
7439-92-1	lead	R
7440-02-0	nickel	R
7440-48-4	cobalt	R
7440-38-2	arsenic	K
7440-41-7	beryllium	K

OSHA-Ca	(Occupational	Safety &	Health A	Administration)
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7440-38-2 arsenic

7440-43-9 cadmium

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Trade name: Certified Waste Water Trace Metals F

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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.
- · 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.

<i>14</i>	Trans	port in	format	ion

· UN-Number · DOT, ADR, IMDG, IATA	UN3264
· UN proper shipping name · DOT · ADR	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid) 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
· IMDG, IATA	(NITRIC ACID) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)

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· Transport hazard class(es)

 $\cdot DOT$ 



· Class 8 Corrosive substances

· Label

 $\cdot ADR$ 



· Class 8 (C1) Corrosive substances

· Label

· IMDG, IATA



· Class 8 Corrosive substances

· Label

· Packing group

· DOT, ADR, IMDG, IATA

• 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 B

• 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:

 $\cdot DOT$ 

• Quantity limitations On passenger aircraft/rail: 1 L

On cargo aircraft only: 30 L

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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)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (NITRIC ACID), 8, II

### 15 Regulatory information

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

5 (extremely hazardous substances):
nitric acid
hydrogen fluoride
3 (Specific toxic chemical listings):
nitric acid
hydrogen fluoride
lead
nickel
barium
chromium
copper
zinc
silver
antimony
aluminium
manganese
thallium
cobalt
vanadium
mercury
arsenic
beryllium

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7440-43-9		
7782-49-2	selenium	
,	ic Substances Control Act):	
All compon	ents have the value ACTIVE.	
Hazardous	Air Pollutants	
7664-39-3	hydrogen fluoride	
7439-92-1		
7439-96-5		
7440-48-4	cobalt	
Proposition	65	
	known to cause cancer:	
7439-92-1		
7440-02-0		
7440-48-4		
7440-38-2		
7440-41-7	-	
7440-43-9	cadmium	
Chemicals I	known to cause reproductive toxicity for females:	
7439-92-1	lead	
Chemicals I	known to cause reproductive toxicity for males:	
7439-92-1		
7440-43-9	cadmium	
Chemicals I	known to cause developmental toxicity:	
7439-92-1		
7439-97-6	mercury	
7440-43-9		
	ic categories onmental Protection Agency)	
,	G •/	B2
7439-92-1 7440-39-3		D, CBD(inh), NL(ora
		` '
7440-42-8		I (oral) D
7440-47-3 7440-50-8		D $D$
7440-50-8	11	
		D, I, II
7440-22-4		D
7439-96-5		D
7439-97-6	mercury	D (Contd. on pag

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7440-38-2	arsenic	A
7440-41-7	beryllium	B1, K/L(inh), CBD(ord
7440-43-9	cadmium	BI
7782-49-2	selenium	D
TLV (Thre	shold Limit Value established by ACGIH)	
7439-92-1	lead	A
7440-02-0	nickel	
7440-39-3	barium	1
7440-47-3	chromium	1
7429-90-5	aluminium	1
7439-98-7	molybdenum	1
7440-48-4	cobalt	2
7439-97-6	mercury	
7440-38-2	arsenic	1
7440-41-7	beryllium	1
7440-43-9	cadmium	1
NIOSH-Ca	a (National Institute for Occupational Safety and Health	h)
7440-02-0	nickel	
7440-38-2	arsenic	
7440-41-7	beryllium	
7440-43-9	cadmium	

- · 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

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.

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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 05/14/2021 / -
- · 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) 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

BEI: Biological Exposure Limit

Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4

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# Safety Data Sheet acc. to OSHA HCS

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Trade name: Certified Waste Water Trace Metals F

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Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation – Category 1

HS.