Printing date 05/18/2023 Reviewed on 05/18/2023

1 Identification

- · Product identifier
- · Product Name: Spike Sample Standard 1 (water)
- · Part Name: CL-SPIKE-1
- · Application of the substance / the mixture Certified Reference Material
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Spex CertiPrep, LLC.

203 Norcross Ave, Metuchen,

NJ 08840 USA 732-549-7144

USMet-CRMSales@antylia.com

- · Information department: product safety department
- · Emergency telephone number:

Emergency Phone Number (24 hours)

CHEMTREC (800-424-9300)

Outside US: 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Skin Corrosion 1B H314 Causes severe skin burns and eye damage.

Eye Damage 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



GHS05

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

nitric acid

- · Hazard statements
- H314 Causes severe skin burns and eye damage.
- · Precautionary statements

P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 3 Fire = 0Reactivity = 0



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(Contd. of page 1)

- · 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.

| 2 cocreption | . Histare of the substances tisted below with hornagardous additions. | |
|--------------|---|----------|
| - | components: | |
| 7697-37-2 | nitric acid | 5.0% |
| 7664-39-3 | hydrofluoric acid | 0.1% |
| · Chemical | identification of the substance/preparation | |
| 7732-18-5 | water, distilled, conductivity or of similar purity | 94.5575% |
| 87-69-4 | (+)-tartaric acid | 0.15% |
| 7439-89-6 | iron | 0.05% |
| 7440-39-3 | barium | 0.025% |
| 7440-66-6 | | 0.025% |
| 7439-96-5 | manganese | 0.01% |
| 7440-02-0 | | 0.01% |
| 7440-36-0 | antimony | 0.01% |
| | chromium | 0.01% |
| 7440-48-4 | | 0.01% |
| 7440-50-8 | | 0.01% |
| 7440-62-2 | vanadium | 0.01% |
| 7439-92-1 | lead | 0.005% |
| 7440-38-2 | arsenic | 0.005% |
| 7440-22-4 | | 0.0025% |
| 7440-28-0 | thallium | 0.0025% |
| 7440-41-7 | <u> </u> | 0.0025% |
| 7440-43-9 | cadmium | 0.0025% |
| 7782-49-2 | selenium | 0.0025% |

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not give anything to eat or drink Do not induce vomitting
- · Information for Doctor:
- $\cdot \textit{Most important symptoms and effects, both acute and delayed} \ \textit{No further relevant information available}.$
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

 $\cdot \textit{Methods and material for containment and cleaning up:}$

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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(Contd. of page 2)

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 |
|-----------|-------------------|--------------------------|
| 87-69-4 | (+)-tartaric acid | 1.6 mg/m^3 |
| 7664-39-3 | hydrofluoric acid | 1.0 ppm |
| 7439-89-6 | iron | 3.2 mg/m^3 |
| 7440-39-3 | barium | 1.5 mg/m^3 |
| 7440-66-6 | zinc | 6 mg/m ³ |
| 7439-96-5 | manganese | $3 mg/m^3$ |
| 7440-02-0 | nickel | $4.5 mg/m^3$ |
| 7440-36-0 | antimony | 1.5 mg/m^3 |
| 7440-47-3 | chromium | 1.5 mg/m³ |
| 7440-48-4 | | 0.18 mg/m^3 |
| 7440-50-8 | copper | $3 mg/m^3$ |
| 7440-62-2 | vanadium | $3 mg/m^3$ |
| 7439-92-1 | lead | 0.15 mg/m^3 |
| 7440-38-2 | | 1.5 mg/m^3 |
| 7440-22-4 | silver | 0.3 mg/m^3 |
| 7440-28-0 | thallium | 0.06 mg/m^3 |
| 7440-41-7 | beryllium | 0.0023 mg/m ⁻ |
| 7440-43-9 | | 0.10 mg/m^3 |
| 7782-49-2 | selenium | 0.6 mg/m^3 |
| PAC-2: | | · |
| 7697-37-2 | nitric acid | 24 ppm |
| 87-69-4 | (+)-tartaric acid | 17 mg/m^3 |
| 7664-39-3 | hydrofluoric acid | 24 ppm |
| 7439-89-6 | iron | 35 mg/m^3 |
| 7440-39-3 | barium | 180 mg/m^3 |
| 7440-66-6 | zinc | 21 mg/m ³ |
| 7439-96-5 | manganese | $5 mg/m^3$ |
| 7440-02-0 | nickel | 50 mg/m ³ |
| 7440-36-0 | antimony | 13 mg/m³ |
| 7440-47-3 | | 17 mg/m ³ |
| 7440-48-4 | | 2 mg/m ³ |
| 7440-50-8 | | 33 mg/m ³ |
| 7440-62-2 | vanadium | 5.8 mg/m^3 |
| 7439-92-1 | | 120 mg/m^3 |
| 7440-38-2 | | 17 mg/m³ |
| 7440-22-4 | | 170 mg/m³ |
| 7440-28-0 | thallium | 3.3 mg/m^3 |
| 7440-41-7 | | 0.025 mg/m ² |
| 7440-43-9 | | 0.76 mg/m^3 |
| 7782-49-2 | selenium | 6.6 mg/m^3 |
| PAC-3: | | |
| 7697-37-2 | nitric acid | 92 ppm |
| 87-69-4 | (+)-tartaric acid | 100 mg/m^3 |
| 7664-39-3 | hydrofluoric acid | 44 ppm |
| 7439-89-6 | | 150 mg/m³ |
| 7440-39-3 | barium | 1,100 mg/m |
| 7440-66-6 | zinc | 120 mg/m^3 |
| 7439-96-5 | manganese | 1,800 mg/m ² |



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| | | Contd. of page 3) |
|-----------|-----------|----------------------|
| 7440-02-0 | nickel | 99 mg/m³ |
| 7440-36-0 | antimony | 80 mg/m³ |
| 7440-47-3 | chromium | 99 mg/m³ |
| 7440-48-4 | | 20 mg/m³ |
| 7440-50-8 | copper | 200 mg/m³ |
| 7440-62-2 | vanadium | 35 mg/m ³ |
| 7439-92-1 | lead | 700 mg/m³ |
| 7440-38-2 | arsenic | 100 mg/m³ |
| 7440-22-4 | silver | 990 mg/m³ |
| 7440-28-0 | thallium | 20 mg/m³ |
| 7440-41-7 | beryllium | 0.1 mg/m³ |
| 7440-43-9 | cadmium | 4.7 mg/m³ |
| 7782-49-2 | selenium | 40 mg/m ³ |

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

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

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

7664-39-3 hydrofluoric acid

PEL Long-term value: 1* mg/m³, 3 ppm

as F, *sulfuric acid

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: 0.5 ppm

Ceiling limit value: 2 ppm

as F; Skin, BEI

· Ingredients with biological limit values:

7664-39-3 hydrofluoric acid

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.

(Contd. on page 5)



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(Contd. of page 4)

Avoid contact with the eyes and skin.

· Respiratory protection:

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:



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 Ph | vsical | and | ci | hemical | nro | nerties |
|--------|--------|-----|----|-----------------|-----|---------|
| 7 1 10 | youcut | unu | | <i>tellitte</i> | PIU | |

| , i i | | | |
|---|--|--|--|
| Information on basic physical and c General Information Appearance: | hemical properties | | |
| Form: | Liquid | | |
| Color: | According to product specification | | |
| · Odor: | Characteristic | | |
| · Odour Threshold: | Not applicable. | | |
| · pH-value: | Not applicable. | | |
| | · · · · · · · · · · · · · · · · · · · | | |
| · Change in condition Melting point/Melting range: Boiling point/Boiling range: | <i>Undetermined.</i> 83 °C (181.4 °F) | | |
| · Flash point: | Not applicable. | | |
| · Flammability (solid, gaseous): | Not applicable. | | |
| · Decomposition temperature: | Not applicable. | | |
| · Auto igniting: | Product is not selfigniting. | | |
| · Danger of explosion: | Product does not present an explosion hazard. | | |
| · Explosion limits: | | | |
| Lower: | Not applicable. | | |
| Upper: | Not applicable. | | |
| · Vapor pressure at 20 °C (68 °F): | 23 hPa (17.3 mm Hg) | | |
| · Density at 20 °C (68 °F) | 1.02849 g/cm³ (8.58275 lbs/gal) | | |
| · Relative density | Not applicable. | | |
| · Vapor density | Not applicable. | | |
| · Evaporation rate | Not applicable. | | |
| · Solubility in / Miscibility with | | | |
| Water: | Fully miscible. | | |
| · Partition coefficient (n-octanol/wate | · Partition coefficient (n-octanol/water): Not applicable. | | |
| · Viscosity: | | | |
| Dynamic: | Not applicable. | | |
| Kinematic: | Not applicable. | | |
| · Solvent content: | | | |
| Water: | 94.6 % | | |
| VOC content: | 0.00 % | | |
| Solids content: | 0.3 % | | |
| | | | |

(Contd. on page 6)



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(Contd. of page 5)

· 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:

· LD/LC50 values that are relevant for classification:

7697-37-2 nitric acid

Inhalative LC50/4 h 2.65 mg/l (ATE)

- Primary irritant effect:
- · on the skin: 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

Irritant

· Carcinogenic categories

| Curemogenic curegories | |
|---|----|
| · IARC (International Agency for Research on Cancer) | |
| 7440-02-0 nickel | 2B |
| 7440-47-3 chromium | 3 |
| 7440-48-4 cobalt | 2B |
| 7439-92-1 lead | 2B |
| 7440-38-2 arsenic | 1 |
| 7440-41-7 beryllium | 1 |
| 7440-43-9 cadmium | 1 |
| 7782-49-2 selenium | 3 |
| · NTP (National Toxicology Program) | |
| 7440-02-0 nickel | R |
| 7440-48-4 cobalt | R |
| 7439-92-1 lead | R |
| 7440-38-2 arsenic | K |
| 7440-41-7 beryllium | K |
| 7440-43-9 cadmium | K |
| · OSHA-Ca (Occupational Safety & Health Administration) | |
| 7440-38-2 arsenic | |
| 7440-43-9 cadmium | |

12 Ecological information

- · Toxicity
- $\cdot \textbf{\textit{Aquatic toxicity:}} \ \textit{No further relevant information available}.$
- · Persistence and degradability No further relevant information available.
- $\cdot \textit{Behavior in environmental systems:}$
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

(Contd. of page 6)



Safety Data Sheet acc. to OSHA HCS

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Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

- · 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.

| 7 4 | (D | | | c | |
|-----|----------|----------------------|------|-----------------|--------------|
| 14 | Trans | nort | 7701 | orma | \mathbf{n} |
| | 1 I WILL | $\rho o \iota \iota$ | וטש | <i>OI III u</i> | uu_{II} |

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

- · Transport hazard class(es)
- $\cdot DOT$



· Class· Label8 Corrosive substances8

· ADR, IMDG, IATA



 \cdot IMDG

· Limited quantities (LQ)

| · Class | 8 Corrosive substances |
|--|---|
| · Label | 8 |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | III |
| · 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 | (SGG1) Acids |
| · Stowage Category | A |
| · Stowage Code | SW2 Clear of living quarters. |
| · Segregation Code | SG36 Stow "separated from" SGG18-alkalis. |
| | SG49 Stow "separated from" SGG6-cyanides |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co. | de Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Excepted quantities (EQ) | Code: E1 |
| | Maximum net quantity per inner packaging: 30 ml |

5L

Maximum net quantity per outer packaging: 1000 ml

(Contd. on page 8)



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| | (Contd. of page 7) |
|----------------------------|--|
| · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation": | UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III |

15 Regulatory information

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

| | 3 (Specific toxic chemical listings): |
|--------------|---------------------------------------|
| 7697-37-2 | nitric acid |
| 7664-39-3 | hydrofluoric acid |
| 7440-39-3 | |
| 7440-66-6 | |
| 7439-96-5 | manganese |
| 7440-02-0 | |
| 7440-36-0 | antimony |
| 7440-47-3 | chromium |
| 7440-48-4 | |
| 7440-50-8 | |
| | vanadium |
| 7439-92-1 | |
| 7440-38-2 | |
| 7440-22-4 | |
| 7440-28-0 | |
| 7440-41-7 | |
| 7440-43-9 | |
| 7782-49-2 | selenium |
| · TSCA (To: | xic Substances Control Act): |
| All compor | nents have the value ACTIVE. |
| | s Air Pollutants |
| | hydrofluoric acid |
| | manganese |
| 7440-48-4 | |
| 7439-92-1 | |
| · Propositio | |
| | known to cause cancer: |
| 7440-02-0 | |
| 7440-48-4 | cobalt |
| | |

| · Chemicals | · Chemicals known to cause cancer: | | |
|-------------|------------------------------------|--|--|
| 7440-02-0 | nickel | | |
| 7440-48-4 | cobalt | | |
| 7439-92-1 | lead | | |
| 7440-38-2 | | | |
| 7440-41-7 | beryllium | | |
| 7440-43-9 | cadmium | | |
| CI . 1 | | | |

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

7440-43-9 cadmium

· Chemicals known to cause developmental toxicity:

7440-43-9 cadmium

· Carcinogenic categories

| · EPA (Environmental Protection Agency) | | |
|---|-----------------------|--|
| 7440-39-3 barium | D, CBD(inh), NL(oral) | |
| 7440-66-6 zinc | D, I, II | |
| 7439-96-5 manganese | D | |
| 7440-50-8 copper | D | |



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| | | (Contd. of page |
|--|--|-----------------------|
| 7439-92-1 | lead | B2 |
| 7440-38-2 | arsenic | A |
| 7440-22-4 | silver | D |
| 7440-41-7 | beryllium | B1, K/L(inh), CBD(ora |
| 7440-43-9 | cadmium | B1 |
| 7782-49-2 | selenium | D |
| TLV (Threshold Limit Value) | | |
| 7440-39-3 | barium | A |
| 7440-02-0 | nickel | A |
| 7440-48-4 | cobalt | A |
| 7439-92-1 | lead | A |
| 7440-38-2 | arsenic | A |
| 7440-43-9 | cadmium | A |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | | |
| 7440-02-0 | nickel | |
| 7440-38-2 | arsenic | |
| 7440-43-9 | cadmium | |
| CHClabal | alaments The product is classified and labeled according to the Globally Harmonized System (CHS) | |

[·] 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:

nitric acid

Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P363 Wash contaminated clothing before reuse.

P405 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: product safety department

· Contact:

Spex CertiPrep, LLC. 1-732-549-7144

Date of preparation / last revision 05/18/2023

· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

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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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
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
Eye Damage 1: Serious eye damage/eye irritation – Category 1