

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/04/2024

Reviewed on 06/04/2024

1 Identification

- **Product identifier**
- **Trade name:** ICAP Metals Standard
in 2% HNO₃ and 5% HCl
- **Article number:** GEI033
- **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 shermann@aquasolutions.org
- **Emergency telephone number:**
Chemtrec: 800-424-9300
Canutec: 613-996-6666



2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS03 Flame over circle

Oxidizing Liquids 2

H272 May intensify fire; oxidizer.



GHS08 Health hazard

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



GHS05 Corrosion

Skin Corrosion 1A

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**



GHS03



GHS05



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Hydrochloric Acid
Nitric Acid

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/04/2024

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**Trade name: ICAP Metals Standard
in 2% HNO3 and 5% HCl**

(Contd. of page 1)

· **Hazard statements**

May intensify fire; oxidizer.

Causes severe skin burns and eye damage.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Keep away from heat.

Keep/Store away from clothing/combustible materials.

Take any precaution to avoid mixing with combustibles.

Do not breathe dusts or mists.

Wash thoroughly after handling.

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

If swallowed: Rinse mouth. Do NOT induce vomiting.

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

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Wash contaminated clothing before reuse.

In case of fire: Use CO2, powder or water spray to extinguish.

Store locked up.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 3

Reactivity = 0

The substance possesses oxidizing properties.

· **HMIS-ratings (scale 0 - 4)**



Health = *3

Fire = 3

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

| | | |
|----------------|-------------------|--------|
| CAS: 7647-01-0 | Hydrochloric Acid | 5.0% |
| CAS: 7697-37-2 | Nitric Acid | 2.021% |

(Contd. on page 3)

US

Safety Data Sheet

acc. to OSHA HCS

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**Trade name: ICAP Metals Standard
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(Contd. of page 2)

| · Table of Nonhazardous Ingredients | | |
|--|--------------------------------|---------|
| CAS: 7732-18-5 | Water | 92.977% |
| CAS: 7789-02-8 | Chromium Nitrate Nonahydrate | 0.0004% |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate | 0.0003% |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade | 0.0002% |
| CAS: 6156-78-1 | Manganese Acetate Tetrahydrate | 0.0002% |
| CAS: 7631-99-4 | Sodium Nitrate | 0.0002% |
| CAS: 19004-19-4 | Cupric Nitrate Hydrate | 0.0002% |

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

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

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

· Information for doctor:

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

· Advice for firefighters

· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions: No special measures required.

· Methods and material for containment and cleaning up:

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

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 4)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/04/2024

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(Contd. of page 3)

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

| | | |
|-----------------|--------------------------------|-----------------------|
| CAS: 7647-01-0 | Hydrochloric Acid | 1.8 ppm |
| CAS: 7697-37-2 | Nitric Acid | 0.16 ppm |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate | 12 mg/m ³ |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade | 27 mg/m ³ |
| CAS: 6156-78-1 | Manganese Acetate Tetrahydrate | 13 mg/m ³ |
| CAS: 7631-99-4 | Sodium Nitrate | 4.1 mg/m ³ |
| CAS: 19004-19-4 | Cupric Nitrate Hydrate | 42 mg/m ³ |
| CAS: 7439-89-6 | Iron Metal | 3.2 mg/m ³ |
| CAS: 7439-95-4 | Magnesium | 18 mg/m ³ |
| CAS: 7440-02-0 | Nickel Metal | 4.5 mg/m ³ |

· **PAC-2:**

| | | |
|-----------------|--------------------------------|-----------------------|
| CAS: 7647-01-0 | Hydrochloric Acid | 22 ppm |
| CAS: 7697-37-2 | Nitric Acid | 24 ppm |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate | 130 mg/m ³ |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade | 300 mg/m ³ |
| CAS: 6156-78-1 | Manganese Acetate Tetrahydrate | 22 mg/m ³ |
| CAS: 7631-99-4 | Sodium Nitrate | 45 mg/m ³ |
| CAS: 19004-19-4 | Cupric Nitrate Hydrate | 150 mg/m ³ |
| CAS: 7439-89-6 | Iron Metal | 35 mg/m ³ |
| CAS: 7439-95-4 | Magnesium | 200 mg/m ³ |
| CAS: 7440-02-0 | Nickel Metal | 50 mg/m ³ |

· **PAC-3:**

| | | |
|-----------------|--------------------------------|-------------------------|
| CAS: 7647-01-0 | Hydrochloric Acid | 100 ppm |
| CAS: 7697-37-2 | Nitric Acid | 92 ppm |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate | 770 mg/m ³ |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade | 1,800 mg/m ³ |
| CAS: 6156-78-1 | Manganese Acetate Tetrahydrate | 740 mg/m ³ |
| CAS: 7631-99-4 | Sodium Nitrate | 270 mg/m ³ |
| CAS: 19004-19-4 | Cupric Nitrate Hydrate | 240 mg/m ³ |
| CAS: 7439-89-6 | Iron Metal | 150 mg/m ³ |
| CAS: 7439-95-4 | Magnesium | 1,200 mg/m ³ |
| CAS: 7440-02-0 | Nickel Metal | 99 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.**

(Contd. on page 5)

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acc. to OSHA HCS

Printing date 06/04/2024

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(Contd. of page 4)

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

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

CAS: 7647-01-0 Hydrochloric Acid

| | |
|--------------------------|--|
| NIOSH RECOMENDED EXP LIM | Ceiling limit value: 7.0 mg/m ³ mg/m ³ |
| PEL | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| REL | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| TLV | Ceiling limit value: 2 ppm |
| | A4 |

CAS: 7697-37-2 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: (4) NIC-0.025* ppm |
| | Long-term value: (2) ppm |
| | *inh. fraction + vapor, NIC-A4 |

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Store protective clothing separately.
 - Avoid contact with the eyes.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/04/2024

Reviewed on 06/04/2024

Trade name: ICAP Metals Standard
in 2% HNO₃ and 5% HCl

(Contd. of page 5)

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

| | |
|-----------------|------------------------------------|
| Form: | Fluid |
| Color: | According to product specification |
| Odor: | Characteristic |
| Odor threshold: | Not determined. |

· **pH-value:** Not determined.

· **Change in condition**

| | |
|------------------------------|------------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 83 °C (181.4 °F) |

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** 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 at 20 °C (68 °F):** 1.01904 g/cm³ (8.50389 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/04/2024

Reviewed on 06/04/2024

Trade name: ICAP Metals Standard
in 2% HNO₃ and 5% HCl

(Contd. of page 6)

- | | |
|----------------------------|--|
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Water: | 93.0 % |
| VOC content: | 0.00 % |
| | 0.0 g/l / 0.00 lb/gal |
| Solids content: | 0.2 % |
| · 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:**

ATE (Acute Toxicity Estimate)

| | | |
|------------|---------|----------|
| Inhalative | LC50/4h | 148 mg/l |
|------------|---------|----------|

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:**
 Strong caustic effect.
 Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
 Corrosive
 Irritant
 Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

| | | |
|----------------|--------------|----|
| CAS: 7440-02-0 | Nickel Metal | 2B |
|----------------|--------------|----|

- **NTP (National Toxicology Program)**

| | | |
|----------------|--------------|---|
| CAS: 7440-02-0 | Nickel Metal | R |
|----------------|--------------|---|

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/04/2024

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Trade name: ICAP Metals Standard
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(Contd. of page 7)

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.


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:**
 Not hazardous for water.
 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.

14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN1760
- **UN proper shipping name**
- **DOT** Corrosive liquids, n.o.s. (Nitric Acid, Hydrochloric Acid)
- **IMDG, IATA** CORROSIVE LIQUID, N.O.S. (Nitric Acid, Hydrochloric Acid)
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 8 Corrosive substances

(Contd. on page 9)

Safety Data Sheet


acc. to OSHA HCS

Printing date 06/04/2024

Reviewed on 06/04/2024

Trade name: ICAP Metals Standard
in 2% HNO₃ and 5% HCl

(Contd. of page 8)

| | |
|---|--|
| · Label | 8 |
| · IMDG, IATA | |
|  | |
| · Class | 8 Corrosive substances |
| · Label | 8 |
| · Packing group | |
| · DOT, IMDG, IATA | II |
| · 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. |
| · 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: 5 L On cargo aircraft only: 60 L |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · 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 1760 CORROSIVE LIQUID, N.O.S. (NITRIC ACID, HYDROCHLORIC ACID), 8, II |

*

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

| | |
|----------------|-------------|
| CAS: 7697-37-2 | Nitric Acid |
|----------------|-------------|

· Section 313 (Specific toxic chemical listings):

| | |
|-----------------|------------------------------|
| CAS: 7697-37-2 | Nitric Acid |
| CAS: 7789-02-8 | Chromium Nitrate Nonahydrate |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade |
| CAS: 7440-02-0 | Nickel Metal |

(Contd. on page 10)

US

Safety Data Sheet

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in 2% HNO₃ and 5% HCl**

(Contd. of page 9)

· **TSCA (Toxic Substances Control Act):**

| | |
|-------------------|--------|
| Water | ACTIVE |
| Hydrochloric Acid | ACTIVE |
| Nitric Acid | ACTIVE |
| Sodium Nitrate | ACTIVE |
| Iron Metal | ACTIVE |
| Magnesium | ACTIVE |
| Nickel Metal | ACTIVE |

· **Hazardous Air Pollutants**

| | |
|----------------|-------------------|
| CAS: 7647-01-0 | Hydrochloric Acid |
|----------------|-------------------|

· **Proposition 65**

· **Chemicals known to cause cancer:**

| | |
|----------------|--------------|
| CAS: 7440-02-0 | Nickel Metal |
|----------------|--------------|

· **Chemicals known to cause reproductive toxicity for females:**

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

· **Chemicals known to cause reproductive toxicity for males:**

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

· **Chemicals known to cause developmental toxicity:**

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

| |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

· **TLV (Threshold Limit Value)**

| | | |
|----------------|--------------|----|
| CAS: 7440-02-0 | Nickel Metal | A5 |
|----------------|--------------|----|

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

| | |
|----------------|--------------|
| CAS: 7440-02-0 | Nickel Metal |
|----------------|--------------|

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

· **Hazard pictograms**



GHS03 GHS05 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

Hydrochloric Acid
Nitric Acid

· **Hazard statements**

May intensify fire; oxidizer.
Causes severe skin burns and eye damage.
May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Keep away from heat.
Keep/Store away from clothing/combustible materials.

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

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in 2% HNO₃ and 5% HCl**

(Contd. of page 10)

Take any precaution to avoid mixing with combustibles.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
Wash contaminated clothing before reuse.
In case of fire: Use CO₂, powder or water spray to extinguish.
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:

• **Date of preparation / last revision**

Revision 1.2, 06/04/2024: Reviewed SDS for accuracy. MH/STN

Revision 0.0, 05-29-2024: Creation date for SDS. STN

06/04/2024

• **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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

Oxidizing Liquids 2: Oxidizing liquids – Category 2

Skin Corrosion 1A: Skin corrosion/irritation – Category 1A

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

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

• *** Data compared to the previous version altered.**

US