

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

## 1 Identification

- **Product identifier**
- **Trade name:** 10.0 mg/L 9 Metal  
IP 501 Working Solution
- **Article number:** SAY042
- **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](mailto:shermann@aquasolutions.org)
- **Emergency telephone number:**  
Chemtrec: 800-424-9300  
Canutec: 613-996-6666



## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

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



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

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



GHS07



GHS08

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
Hydrochloric Acid
- **Hazard statements**  
Causes skin irritation.  
Causes serious eye irritation.  
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
Do not breathe dust/fume/gas/mist/vapors/spray.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

**Trade name: 10.0 mg/L 9 Metal  
IP 501 Working Solution**

(Contd. of page 1)

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

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

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*2

Fire = 0

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	2.343%
CAS: 7697-37-2	Nitric Acid	0.322%

· **Table of Nonhazardous Ingredients**

CAS: 7732-18-5	Water	96.645%
CAS: 12007-60-2	Lithium Tetraborate, Reagent	0.36%
CAS: 87-69-4	L-Tartaric Acid	0.248%
CAS: 7789-24-4	Lithium Fluoride	0.04%
CAS: 7784-27-2	Aluminum Nitrate	0.014%
CAS: 16919-19-0	Ammonium hexafluorosilicate	0.006%
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	0.006%
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	0.004%
CAS: 7783-28-0	Ammonium Phosphate Dibasic	0.004%
CAS: 7631-99-4	Sodium Nitrate	0.004%
CAS: 1314-62-1	Vanadium Pentoxide Reagent	0.002%
CAS: 7439-89-6	Iron Metal	0.001%

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

**Trade name: 10.0 mg/L 9 Metal  
IP 501 Working Solution**

(Contd. of page 2)

CAS: 7440-02-0 Nickel Metal

0.001%

## 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. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult 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.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
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.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm
CAS: 12007-60-2	Lithium Tetraborate, Reagent	4.3 mg/m <sup>3</sup>
CAS: 7697-37-2	Nitric Acid	0.16 ppm
CAS: 87-69-4	L-Tartaric Acid	1.6 mg/m <sup>3</sup>
CAS: 7789-24-4	Lithium Fluoride	10 mg/m <sup>3</sup>
CAS: 7784-27-2	Aluminum Nitrate	83 mg/m <sup>3</sup>

(Contd. on page 4)

US

## Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

**Trade name: 10.0 mg/L 9 Metal**  
**IP 501 Working Solution**

(Contd. of page 3)

CAS: 16919-19-0	Ammonium hexafluorosilicate	12 mg/m <sup>3</sup>
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	12 mg/m <sup>3</sup>
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	27 mg/m <sup>3</sup>
CAS: 7783-28-0	Ammonium Phosphate Dibasic	20 mg/m <sup>3</sup>
CAS: 7631-99-4	Sodium Nitrate	4.1 mg/m <sup>3</sup>
CAS: 1314-62-1	Vanadium Pentoxide Reagent	0.64 mg/m <sup>3</sup>
CAS: 7439-89-6	Iron Metal	3.2 mg/m <sup>3</sup>
CAS: 7440-02-0	Nickel Metal	4.5 mg/m <sup>3</sup>

**· PAC-2:**

CAS: 7647-01-0	Hydrochloric Acid	22 ppm
CAS: 12007-60-2	Lithium Tetraborate, Reagent	47 mg/m <sup>3</sup>
CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 87-69-4	L-Tartaric Acid	17 mg/m <sup>3</sup>
CAS: 7789-24-4	Lithium Fluoride	110 mg/m <sup>3</sup>
CAS: 7784-27-2	Aluminum Nitrate	920 mg/m <sup>3</sup>
CAS: 16919-19-0	Ammonium hexafluorosilicate	130 mg/m <sup>3</sup>
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	130 mg/m <sup>3</sup>
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	300 mg/m <sup>3</sup>
CAS: 7783-28-0	Ammonium Phosphate Dibasic	39 ppm
CAS: 7631-99-4	Sodium Nitrate	45 mg/m <sup>3</sup>
CAS: 1314-62-1	Vanadium Pentoxide Reagent	7 mg/m <sup>3</sup>
CAS: 7439-89-6	Iron Metal	35 mg/m <sup>3</sup>
CAS: 7440-02-0	Nickel Metal	50 mg/m <sup>3</sup>

**· PAC-3:**

CAS: 7647-01-0	Hydrochloric Acid	100 ppm
CAS: 12007-60-2	Lithium Tetraborate, Reagent	280 mg/m <sup>3</sup>
CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 87-69-4	L-Tartaric Acid	100 mg/m <sup>3</sup>
CAS: 7789-24-4	Lithium Fluoride	680 mg/m <sup>3</sup>
CAS: 7784-27-2	Aluminum Nitrate	5,500 mg/m <sup>3</sup>
CAS: 16919-19-0	Ammonium hexafluorosilicate	780 mg/m <sup>3</sup>
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	770 mg/m <sup>3</sup>
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	1,800 mg/m <sup>3</sup>
CAS: 7783-28-0	Ammonium Phosphate Dibasic	240 ppm
CAS: 7631-99-4	Sodium Nitrate	270 mg/m <sup>3</sup>
CAS: 1314-62-1	Vanadium Pentoxide Reagent	70 mg/m <sup>3</sup>
CAS: 7439-89-6	Iron Metal	150 mg/m <sup>3</sup>
CAS: 7440-02-0	Nickel Metal	99 mg/m <sup>3</sup>

US

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

**Trade name: 10.0 mg/L 9 Metal  
IP 501 Working Solution**

(Contd. of page 4)

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **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 section 7.
- **Control parameters**

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

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

NIOSH RECOMMENDED EXP LIMIT	Ceiling limit value: 7.0 mg/m <sup>3</sup> mg/m <sup>3</sup>
PEL	Ceiling limit value: 7 mg/m <sup>3</sup> , 5 ppm
REL	Ceiling limit value: 7 mg/m <sup>3</sup> , 5 ppm
TLV	Ceiling limit value: 2 ppm A4

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

PEL	Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
REL	Short-term value: 10 mg/m <sup>3</sup> , 4 ppm Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
TLV	Short-term value: (4) NIC-0.025 ppm Long-term value: (2) ppm 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 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

(Contd. on page 6)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

**Trade name: 10.0 mg/L 9 Metal  
IP 501 Working Solution**

(Contd. of page 5)

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

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Clear to pale colored liquid
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

<b>Melting point/Melting range:</b>	0 °C (32 °F)
<b>Boiling point/Boiling range:</b>	100 °C (212 °F)

· **Flash point:** Not applicable.

· **Flammability:** Not determined.

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)

<b>Density at 20 °C (68 °F):</b>	1.00243 g/cm <sup>3</sup> (8.36528 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapor density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.

(Contd. on page 7)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

**Trade name: 10.0 mg/L 9 Metal  
IP 501 Working Solution**

(Contd. of page 6)

- |                                                   |                                            |
|---------------------------------------------------|--------------------------------------------|
| <b>· Solubility in / Miscibility with Water:</b>  | Soluble.                                   |
| <b>· Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| <b>· Viscosity:</b>                               |                                            |
| <b>Dynamic:</b>                                   | Not applicable.                            |
| <b>Kinematic:</b>                                 | Not applicable.                            |
| <b>· Solvent content:</b>                         |                                            |
| <b>Water:</b>                                     | 96.6 %                                     |
| <b>VOC content:</b>                               | 0.00 %                                     |
| <b>· Solids content:</b>                          | 100.0 %                                    |
| <b>· Other information</b>                        | 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	932 mg/l
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- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

- **Carcinogenic categories**

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

CAS: 7789-24-4	Lithium Fluoride	3
CAS: 1314-62-1	Vanadium Pentoxide Reagent	2B
CAS: 7440-02-0	Nickel Metal	2B

- **NTP (National Toxicology Program)**

CAS: 7440-02-0	Nickel Metal	R
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(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

**Trade name: 10.0 mg/L 9 Metal  
IP 501 Working Solution**

(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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| · <b>UN-Number</b>                                                               |                 |
| · <b>DOT, IMDG, IATA</b>                                                         | Not regulated   |
| · <b>UN proper shipping name</b>                                                 |                 |
| · <b>DOT, IMDG, IATA</b>                                                         | Not regulated   |
| · <b>Transport hazard class(es)</b>                                              |                 |
| · <b>DOT, ADN, IMDG, IATA</b>                                                    |                 |
| · <b>Class</b>                                                                   | Not regulated   |
| · <b>Packing group</b>                                                           |                 |
| · <b>DOT, IMDG, IATA</b>                                                         | Not regulated   |
| · <b>Environmental hazards:</b>                                                  | Not applicable. |
| · <b>Special precautions for user</b>                                            | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

(Contd. on page 9)

US



# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

**Trade name: 10.0 mg/L 9 Metal  
IP 501 Working Solution**

(Contd. of page 8)

· UN "Model Regulation": Not regulated

## 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
CAS: 1314-62-1	Vanadium Pentoxide Reagent

· **Section 313 (Specific toxic chemical listings):**

CAS: 7697-37-2	Nitric Acid
CAS: 7784-27-2	Aluminum Nitrate
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade
CAS: 1314-62-1	Vanadium Pentoxide Reagent
CAS: 7440-02-0	Nickel Metal

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

Water	ACTIVE
Hydrochloric Acid	ACTIVE
Lithium Tetraborate, Reagent	ACTIVE
Nitric Acid	ACTIVE
L-Tartaric Acid	ACTIVE
Lithium Fluoride	ACTIVE
Ammonium hexafluorosilicate	ACTIVE
Ammonium Phosphate Dibasic	ACTIVE
Sodium Nitrate	ACTIVE
Vanadium Pentoxide Reagent	ACTIVE
Iron Metal	ACTIVE
Nickel Metal	ACTIVE

· **Hazardous Air Pollutants**

CAS: 7647-01-0	Hydrochloric Acid
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· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 1314-62-1	Vanadium Pentoxide Reagent
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.

(Contd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

**Trade name: 10.0 mg/L 9 Metal**  
**IP 501 Working Solution**

(Contd. of page 9)

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

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

CAS: 12007-60-2	Lithium Tetraborate, Reagent	I (oral)
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· **TLV (Threshold Limit Value)**

CAS: 7789-24-4	Lithium Fluoride	A4
CAS: 1314-62-1	Vanadium Pentoxide Reagent	A3
CAS: 7440-02-0	Nickel Metal	A5

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

CAS: 7440-02-0	Nickel Metal
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· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07    GHS08

· **Signal word** Warning

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

Hydrochloric Acid

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

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

Continue rinsing.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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:

(Contd. on page 11)

**Safety Data Sheet**  
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**Trade name: 10.0 mg/L 9 Metal**  
**IP 501 Working Solution**

(Contd. of page 10)

**· Date of preparation / last revision**

Revision 0.0, 12-30-2024: Creation date for SDS CMC/STN  
12/30/2024 / 1.0

**· 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

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

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

**· \* Data compared to the previous version altered.**

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