

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/04/2024

Reviewed on 06/04/2024

1 Identification

- **Product identifier**
- **Trade name:** 16 Element ICP Std 16 ppb ea: As, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mo, Ni, Pb, Sb, Ti, V, Zn
- **Article number:** GIN005
- **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**



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

- **Signal word** Warning
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
- **Precautionary statements**
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.
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.

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Trade name: 16 Element ICP Std 16 ppb ea: As, Ca, Cd, Co, Cr,
Cu, Fe, Li, Mg, Mo, Ni, Pb, Sb, Ti, V, Zn

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· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **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: 7697-37-2	Nitric Acid	≤2.05%
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· **Table of Nonhazardous Ingredients**

CAS: 7732-18-5	Water	≤97.938%
CAS: 87-69-4	L-Tartaric Acid	≤0.005%
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	≤0.005%
CAS: 7439-89-6	Iron Metal	≤0.0001%
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	≤0.0001%
CAS: 7439-93-2	lithium	≤0.0001%
CAS: 7439-95-4	Magnesium	≤0.0001%
CAS: 7439-96-5	manganese	≤0.0001%
CAS: 7439-98-7	Molybdenum Metal, 99.8%	≤0.0001%
CAS: 7440-02-0	Nickel Metal	≤0.0001%
CAS: 7440-24-6	strontium	≤0.0001%
CAS: 7440-28-0	thallium	≤0.0001%
CAS: 7440-32-6	Titanium Metal	≤0.0001%
CAS: 7440-36-0	Antimony Metal	≤0.0001%
CAS: 7440-38-2	arsenic	≤0.0001%
CAS: 7440-41-7	beryllium	≤0.0001%
CAS: 7440-43-9	cadmium Metal	≤0.0001%
CAS: 7440-47-3	chromium	≤0.0001%
CAS: 7440-48-4	cobalt	≤0.0001%
CAS: 7440-50-8	copper	≤0.0001%
CAS: 7440-62-2	vanadium	≤0.0001%

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CAS: 7440-66-6	Zinc Metal	≤0.0001%
CAS: 7440-70-2	Calcium Metal	≤0.0001%
CAS: 7782-49-2	selenium	≤0.0001%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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: 7697-37-2	Nitric Acid	0.16 ppm
CAS: 87-69-4	L-Tartaric Acid	1.6 mg/m ³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	1.0 ppm
CAS: 7439-89-6	Iron Metal	3.2 mg/m ³
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	0.15 mg/m ³
CAS: 7439-93-2	lithium	3.3 mg/m ³
CAS: 7439-95-4	Magnesium	18 mg/m ³
CAS: 7439-96-5	manganese	3 mg/m ³

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CAS: 7439-98-7	Molybdenum Metal, 99.8%	30 mg/m ³
CAS: 7440-02-0	Nickel Metal	4.5 mg/m ³
CAS: 7440-24-6	strontium	30 mg/m ³
CAS: 7440-28-0	thallium	0.06 mg/m ³
CAS: 7440-32-6	Titanium Metal	30 mg/m ³
CAS: 7440-36-0	Antimony Metal	1.5 mg/m ³
CAS: 7440-38-2	arsenic	1.5 mg/m ³
CAS: 7440-41-7	beryllium	0.0023 mg/m ³
CAS: 7440-43-9	cadmium Metal	0.10 mg/m ³
CAS: 7440-47-3	chromium	1.5 mg/m ³
CAS: 7440-48-4	cobalt	0.18 mg/m ³
CAS: 7440-50-8	copper	3 mg/m ³
CAS: 7440-62-2	vanadium	3 mg/m ³
CAS: 7440-66-6	Zinc Metal	6 mg/m ³
CAS: 7782-49-2	selenium	0.6 mg/m ³

· PAC-2:

CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 87-69-4	L-Tartaric Acid	17 mg/m ³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	24 ppm
CAS: 7439-89-6	Iron Metal	35 mg/m ³
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	120 mg/m ³
CAS: 7439-93-2	lithium	36 mg/m ³
CAS: 7439-95-4	Magnesium	200 mg/m ³
CAS: 7439-96-5	manganese	5 mg/m ³
CAS: 7439-98-7	Molybdenum Metal, 99.8%	330 mg/m ³
CAS: 7440-02-0	Nickel Metal	50 mg/m ³
CAS: 7440-24-6	strontium	330 mg/m ³
CAS: 7440-28-0	thallium	3.3 mg/m ³
CAS: 7440-32-6	Titanium Metal	330 mg/m ³
CAS: 7440-36-0	Antimony Metal	13 mg/m ³
CAS: 7440-38-2	arsenic	17 mg/m ³
CAS: 7440-41-7	beryllium	0.025 mg/m ³
CAS: 7440-43-9	cadmium Metal	0.76 mg/m ³
CAS: 7440-47-3	chromium	17 mg/m ³
CAS: 7440-48-4	cobalt	2 mg/m ³
CAS: 7440-50-8	copper	33 mg/m ³
CAS: 7440-62-2	vanadium	5.8 mg/m ³
CAS: 7440-66-6	Zinc Metal	21 mg/m ³
CAS: 7782-49-2	selenium	6.6 mg/m ³

· PAC-3:

CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 87-69-4	L-Tartaric Acid	100 mg/m ³

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CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	44 ppm
CAS: 7439-89-6	Iron Metal	150 mg/m ³
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	700 mg/m ³
CAS: 7439-93-2	lithium	220 mg/m ³
CAS: 7439-95-4	Magnesium	1,200 mg/m ³
CAS: 7439-96-5	manganese	1,800 mg/m ³
CAS: 7439-98-7	Molybdenum Metal, 99.8%	2,000 mg/m ³
CAS: 7440-02-0	Nickel Metal	99 mg/m ³
CAS: 7440-24-6	strontium	2,000 mg/m ³
CAS: 7440-28-0	thallium	20 mg/m ³
CAS: 7440-32-6	Titanium Metal	2,000 mg/m ³
CAS: 7440-36-0	Antimony Metal	80 mg/m ³
CAS: 7440-38-2	arsenic	100 mg/m ³
CAS: 7440-41-7	beryllium	0.1 mg/m ³
CAS: 7440-43-9	cadmium Metal	4.7 mg/m ³
CAS: 7440-47-3	chromium	99 mg/m ³
CAS: 7440-48-4	cobalt	20 mg/m ³
CAS: 7440-50-8	copper	200 mg/m ³
CAS: 7440-62-2	vanadium	35 mg/m ³
CAS: 7440-66-6	Zinc Metal	120 mg/m ³
CAS: 7782-49-2	selenium	40 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **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: 7697-37-2 Nitric Acid

PEL Long-term value: 5 mg/m³, 2 ppm

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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.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **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

· **Body protection:** Protective work clothing

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Liquid

Color: Colorless

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

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Cu, Fe, Li, Mg, Mo, Ni, Pb, Sb, Ti, V, Zn

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· Change in condition	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °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):	1.01034 g/cm ³ (8.43129 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Water:	≤97.9 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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Cu, Fe, Li, Mg, Mo, Ni, Pb, Sb, Ti, V, Zn

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Inhalative	LC50/4h	≥146 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: 7439-92-1	lead powder [particle diameter < 1 mm]	2B
CAS: 7440-02-0	Nickel Metal	2B
CAS: 7440-38-2	arsenic	1
CAS: 7440-41-7	beryllium	1
CAS: 7440-43-9	cadmium Metal	1
CAS: 7440-47-3	chromium	3
CAS: 7440-48-4	cobalt	2B
CAS: 7782-49-2	selenium	3

- NTP (National Toxicology Program)

CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	R
CAS: 7440-02-0	Nickel Metal	R
CAS: 7440-38-2	arsenic	K
CAS: 7440-41-7	beryllium	K
CAS: 7440-43-9	cadmium Metal	K
CAS: 7440-48-4	cobalt	R

- OSHA-Ca (Occupational Safety & Health Administration)

CAS: 7440-38-2	arsenic
CAS: 7440-43-9	cadmium Metal

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.

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- **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

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADN, IMDG, IATA | Not regulated |
| · UN proper shipping name | |
| · DOT, ADN, IMDG, IATA | Not regulated |
| · Transport hazard class(es) | |
| · DOT, ADN, IMDG, IATA | |
| · Class | Not regulated |
| · Packing group | |
| · DOT, IMDG, IATA | Not regulated |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · 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: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution

· Section 313 (Specific toxic chemical listings):

CAS: 7697-37-2	Nitric Acid
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]

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CAS: 7439-96-5	manganese
CAS: 7440-02-0	Nickel Metal
CAS: 7440-28-0	thallium
CAS: 7440-36-0	Antimony Metal
CAS: 7440-38-2	arsenic
CAS: 7440-41-7	beryllium
CAS: 7440-43-9	cadmium Metal
CAS: 7440-47-3	chromium
CAS: 7440-48-4	cobalt
CAS: 7440-50-8	copper
CAS: 7440-62-2	vanadium
CAS: 7440-66-6	Zinc Metal
CAS: 7782-49-2	selenium

· TSCA (Toxic Substances Control Act):

Water	ACTIVE
Nitric Acid	ACTIVE
L-Tartaric Acid	ACTIVE
Hydrofluoric Acid 49-51% Aqueous Solution	ACTIVE
Iron Metal	ACTIVE
lead powder [particle diameter < 1 mm]	ACTIVE
lithium	ACTIVE
Magnesium	ACTIVE
manganese	ACTIVE
Molybdenum Metal, 99.8%	ACTIVE
Nickel Metal	ACTIVE
strontium	ACTIVE
thallium	ACTIVE
Titanium Metal	ACTIVE
Antimony Metal	ACTIVE
arsenic	ACTIVE
beryllium	ACTIVE
cadmium Metal	ACTIVE
chromium	ACTIVE
cobalt	ACTIVE
copper	ACTIVE
vanadium	ACTIVE
Zinc Metal	ACTIVE
Calcium Metal	ACTIVE
selenium	ACTIVE

· Hazardous Air Pollutants

CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]

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CAS: 7439-96-5	manganese	
CAS: 7440-48-4	cobalt	
· Proposition 65		
· Chemicals known to cause cancer:		
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	
CAS: 7440-02-0	Nickel Metal	
CAS: 7440-38-2	arsenic	
CAS: 7440-41-7	beryllium	
CAS: 7440-43-9	cadmium Metal	
CAS: 7440-48-4	cobalt	
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
CAS: 7440-43-9	cadmium Metal	
· Chemicals known to cause developmental toxicity:		
CAS: 7440-43-9	cadmium Metal	
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
CAS: 7439-96-5	manganese	D
CAS: 7440-38-2	arsenic	A
CAS: 7440-41-7	beryllium	B1, K/L(inh), CBD(oral)
CAS: 7440-43-9	cadmium Metal	B1
CAS: 7440-47-3	chromium	D
CAS: 7440-50-8	copper	D
CAS: 7440-66-6	Zinc Metal	D, I, II
CAS: 7782-49-2	selenium	D
· TLV (Threshold Limit Value)		
CAS: 7439-98-7	Molybdenum Metal, 99.8%	A3
CAS: 7440-02-0	Nickel Metal	A5
CAS: 7440-38-2	arsenic	A1
CAS: 7440-41-7	beryllium	A1
CAS: 7440-43-9	cadmium Metal	A2
CAS: 7440-47-3	chromium	A4
CAS: 7440-48-4	cobalt	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
CAS: 7440-02-0	Nickel Metal	
CAS: 7440-38-2	arsenic	
CAS: 7440-41-7	beryllium	
CAS: 7440-43-9	cadmium Metal	

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

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· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

· **Precautionary statements**

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.

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.

· **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

Skin Irritation 2: Skin corrosion/irritation – Category 2

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

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