

Revision date: 10/08/2025

1 Identification

· Product identifier

· Product Name: ICP Calibration Standard (125 mL)

· Part no.: ICM-103

· Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Agilent Technologies, Inc. 5301 Stevens Creek Blvd. Santa Clara, CA 95051 USA

· Information department:

Telephone: 800-227-9770

e-mail: pdl-msds author@agilent.com

· Emergency telephone number: CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.

Toxic to Reproduction 1A H360 May damage fertility or the unborn child.



GHS05 Corrosion

Corrosive to Metals 1 H290 May be corrosive to metals. Eye Damage 1 H318 Causes serious eye damage.



GHS07

Acute Toxicity - Inhalation 4 H332 Harmful if inhaled. Skin Irritation 2 H315 Causes skin irritation.

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







GHS05 GHS07 GHS

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

nitric acid

boric acid

Nitric acid, nickel(2+) salt, hexahydrate

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thallium nitrate

· Hazard statements

H290 May be corrosive to metals.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

Precautionary statements

P261 Avoid breathing vapours.

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

P234 Keep only in original container. P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a poison center/doctor. P321 Specific treatment (see on this label).

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

P302+P352 If on skin: Wash with plenty of water. P390 Absorb spillage to prevent material damage.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

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

regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 3Fire = 0Reactivity = 0

· 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.

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4.95%
1.0288%
0.5721%
0.4955%
0.4938%
0.1598%
0.1575%
0.1303%

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:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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: 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: Mouth respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: 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 section 13.

Ensure adequate ventilation.

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· 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
	aluminium nitrate	83 mg/m³
	magnesium nitrate hexahydrate	16 mg/m ³
	-8 iron (III) nitrate nonahydrate	
10043-35-3	•	22 mg/m ³ 6 mg/m ³
	lithium carbonate	3.1 mg/m^3
	Nitric acid, nickel(2+) salt, hexahydrate	1.5 mg/m ³
	cobalt (II) nitrate hexahydrate	0.3 mg/m ³
	zinc(II) nitrate hexahydrate	27 mg/m³
	sodium nitrate	3.8 mg/m3
10377-66-9	manganese dinitrate	9.8 mg/m³
	copper dinitrate	8.9 mg/m³
	Nitric acid, cadmium salt, tetrahydrate	1.2 mg/m3
	potassium nitrate	11 mg/m3
471-34-1	calcium carbonate	45 mg/m ³
10042-76-9	strontium nitrate	5.7 mg/m ³
10022-31-8	barium nitrate	2.9 mg/m³
10099-74-8	lead dinitrate	0.24 mg/m ²
7761-88-8	silver nitrate	0.047 mg/n
10102-45-1	thallium nitrate	0.078 mg/n
1312-43-2	diindium trioxide	22 mg/m3
7440-55-3	gallium	30 mg/m^3
7440-69-9	bismuth	15 mg/m ³
PAC-2:		ı
7697-37-2	nitric acid	24 ppm
7784-27-2	aluminium nitrate	920 mg/m
13446-18-9	magnesium nitrate hexahydrate	180 mg/m
	iron (III) nitrate nonahydrate	110 mg/m
10043-35-3	boric acid	23 mg/m³
554-13-2	lithium carbonate	11 ppm
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	53 mg/m ³
	cobalt (II) nitrate hexahydrate	23 mg/m ³
10196-18-6	zinc(II) nitrate hexahydrate	300 mg/m
7631-99-4	sodium nitrate	42 mg/m ³
10377-66-9	manganese dinitrate	16 mg/m³
	copper dinitrate	31 mg/m^3



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	Nitric acid, cadmium salt, tetrahydrate	13 mg/m3
	potassium nitrate	120 mg/m3 210 mg/m ³
471-34-1	calcium carbonate	
10042-76-9	strontium nitrate	62 mg/m ³
10022-31-8	barium nitrate	350 mg/m ³
10099-74-8	lead dinitrate	180 mg/m ³
	silver nitrate	39 mg/m3
10102-45-1	thallium nitrate	4.3 mg/m ³
1312-43-2	diindium trioxide	240 mg/m3
7440-55-3	gallium	330 mg/m ³
7440-69-9	bismuth	170 mg/m ³
· PAC-3:		
	nitric acid	92 ppm
	aluminium nitrate	5,500 mg/m
	magnesium nitrate hexahydrate	1,100 mg/m
	iron (III) nitrate nonahydrate	640 mg/m ³
10043-35-3	boric acid	830 mg/m ³
	lithium carbonate	
	Nitric acid, nickel(2+) salt, hexahydrate	320 mg/m ³
	cobalt (II) nitrate hexahydrate	140 mg/m ³
	zinc(II) nitrate hexahydrate	1,800 mg/m
	sodium nitrate	250 mg/m3
10377-66-9	manganese dinitrate	98 mg/m3
3251-23-8	copper dinitrate	190 mg/m ³
10022-68-1	Nitric acid, cadmium salt, tetrahydrate	78 mg/m3
7757-79-1	potassium nitrate	740 mg/m3
471-34-1	calcium carbonate	1,300 mg/m
10042-76-9	strontium nitrate	370 mg/m ³
10022-31-8	barium nitrate	2,100 mg/m
	lead dinitrate	1,100 mg/m
7761-88-8	silver nitrate	230 mg/m3
10102-45-1	thallium nitrate	26 mg/m ³
1312-43-2	diindium trioxide	1400 mg/m
7440-55-3	I ^e	2,000 mg/m
7440-69-9	bismuth	990 mg/m ³

7 Handling and storage

- · Handling:

• Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

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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 section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At th	is time, the other constituents have no known exposure limits.
7697	-37-2 nitric acid
PEL	Long-term value: 5 mg/m³, 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
	3-35-3 boric acid
TLV	Short-term value: 6* mg/m ³
	Long-term value: 2* mg/m³
1000	*as inhalable fraction, A4
	9-74-8 lead dinitrate
PEL	Long-term value: 0.05 mg/m ³
DEI	as Pb; See 29 CFR 1910.1025
KEL	Long-term value: 0.05* mg/m³ as Pb;*8-hr TWA; See Pocket Guide App. C
TIV	Long-term value: 0.05 mg/m ³
ILV	as Pb; A3, BEI
1010	2-45-1 thallium nitrate
	Long-term value: 0.1 mg/m ³
122	as Tl; Skin
REL	Long-term value: 0.1 mg/m ³
	as Tl; Skin
TLV	Long-term value: 0.02* mg/m ³
	as Tl; *inhalable fraction; Skin
·Ingre	edients with biological limit values:
1009	9-74-8 lead dinitrate
BEI	200 μg/100 ml
	Medium: blood
	Time: not critical
	Parameter: Lead



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- · 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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· Penetration time of glove material

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

Eve protection:



Tightly sealed goggles

9 Physical and chemical properties

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

Form: Fluid

Color: According to product specification Characteristic

· Odor: Not determined. · Odor threshold:

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined. 100 °C (212 °F) **Boiling point/Boiling range:**

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· Flash point:	Not applicable.	
· Flammability:	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: Upper:	Not determined. Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
 Density: Relative density Vapor density Evaporation rate 	Not determined. Not determined. Not determined. Not determined.	
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: Water: VOC content:	85.3 % 0.00 % 0.0 g/l / 0.00 lb/gal	
Solids content:	9.7 %	_
· 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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11 Toxicological information

- · Information on toxicological effects

· Acute tox	· Acute toxicity:			
· LD/LC50	· LD/LC50 values that are relevant for classification:			
ATE (Acu	ATE (Acute Toxicity Estimate)			
Oral	LD50	14,088 mg/kg		
Inhalative	LC50/4 h	16.2 mg/L		
7697-37-2	nitric acid	l		
Inhalative	LC50/4 h	67 mg/L (rat)		
7789-02-8	chromiun	n (III) nitrate nonahydrate		
Oral	LD50	3,250 mg/kg (rat)		
10043-35-	3 boric aci	d		
Oral	LD50	2,660 mg/kg (rat)		
Dermal	LD50	>2,000 mg/kg (rabbit)		
Inhalative	LC50/4 h	0.16 mg/L (rat)		
13478-00-	7 Nitric ac	id, nickel(2+) salt, hexahydrate		
Oral	LD50	1,620 mg/kg (rat)		
10026-22-	9 cobalt (I	I) nitrate hexahydrate		
Oral	LD50	691 mg/kg (rat)		
7761-88-8	7761-88-8 silver nitrate			
Oral	LD50	50 mg/kg (mouse)		
		1,173 mg/kg (rat)		
10102-45-	10102-45-1 thallium nitrate			
Oral	LD50	33 mg/kg (mouse)		

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- on the eye: 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

Irritant

· Carcinogenic categories

· IARC (Internatio	nal Agency for Research on Cancer)	
	acid, nickel(2+) salt, hexahydrate	1
10026-22-9 cobalt	t (II) nitrate hexahydrate	2B
10022-68-1 Nitric	acid, cadmium salt, tetrahydrate	1
10099-74-8 lead d	linitrate	2A
`	oxicology Program)	
13478-00-7 Nitric	acid, nickel(2+) salt, hexahydrate	K
10022-68-1 Nitric	acid, cadmium salt, tetrahydrate	K
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10099-74-8 lead dinitrate

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· OSHA-Ca (Occupational Safety & Health Administration)

10022-68-1 Nitric acid, cadmium salt, tetrahydrate

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 2 (Self-assessment): hazardous for water

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

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.

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

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· Transport hazard class(es)

· DOT



· Class 8 Corrosive substances

· Label

· IMDG, IATA



· Class 8 Corrosive substances

· Label 8

· Packing group

· DOT, 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 (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)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

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Safety, heal Sara	th and environmental regulations/legislation specific for th	e substance or mixture
Section 355	(extremely hazardous substances):	
7697-37-2	nitric acid	
Section 313	(Specific toxic chemical listings):	
	nitric acid	
7784-27-2	aluminium nitrate	
13446-18-9	magnesium nitrate hexahydrate	
7789-02-8	chromium (III) nitrate nonahydrate	
7782-61-8	iron (III) nitrate nonahydrate	
554-13-2	lithium carbonate	
13478-00-7	Nitric acid, nickel(2+) salt, hexahydrate	
10026-22-9	cobalt (II) nitrate hexahydrate	
10196-18-6	zinc(II) nitrate hexahydrate	
10377-66-9	manganese dinitrate	
	copper dinitrate	
	Nitric acid, cadmium salt, tetrahydrate	
	potassium nitrate	
	strontium nitrate	
	barium nitrate	
	lead dinitrate	
	silver nitrate	
10102-45-1	thallium nitrate	
	ic Substances Control Act):	
7732-18-5	water	ACTI
7697-37-2		ACTI
10043-35-3		ACTI
	lithium carbonate	ACTI
	sodium nitrate	ACTI
	manganese dinitrate	ACTI
	copper dinitrate	ACTI
	potassium nitrate	ACTI
	calcium carbonate	ACTI
	strontium nitrate	ACTI
	barium nitrate	ACTI
	lead dinitrate	ACTI
	silver nitrate	ACTI
10102-45-1	thallium nitrate	ACTI



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7440-55-3 gallium			ACTIVE	
7440-69-9 bismuth			ACTIVE	
· Hazardous Air Pollutants				
10026-22-9 cobalt (II) nitrate hexahydrate				
10377-66-9 manganese dinitrate				
10022-68-1 Nitric acid, cadmium salt, tetrah	hydrate			
10099-74-8 lead dinitrate				
Proposition 65				
· Chemicals known to cause cancer:				
13478-00-7 Nitric acid, nickel(2+) salt, hexa	•			
10022-68-1 Nitric acid, cadmium salt, tetrah	hydrate			
10099-74-8 lead dinitrate				
· Chemicals known to cause reproductive to	oxicity for females:			
None of the ingredients is listed.				
· Chemicals known to cause reproductive to				
13478-00-7 Nitric acid, nickel(2+) salt, hexa	ahydrate			
· Chemicals known to cause developmental	toxicity:			
554-13-2 lithium carbonate				
13478-00-7 Nitric acid, nickel(2+) salt, hexa	ahydrate			
· Carcinogenic categories				
· EPA (Environmental Protection Agency)				
10043-35-3 boric acid		I (oral)		
10377-66-9 manganese dinitrate		D		
10022-31-8 barium nitrate			D, CBD(inh), NL(oral)	
10099-74-8 lead dinitrate		B2		
10102-45-1 thallium nitrate		II		
· TLV (Threshold Limit Value)				
10043-35-3 boric acid			A4	
10022-31-8 barium nitrate			A4	

· National regulations:

10099-74-8 lead dinitrate

· Additional classification according to Decree on Hazardous Materials:

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

Carcinogenic hazardous material group III (dangerous).

13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate 10022-68-1 Nitric acid, cadmium salt, tetrahydrate

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- Department issuing SDS: Document Control / Regulatory
- · Contact: pdl-acg-regulatory-cq@agilent.com
- · Date of preparation / last revision 10/08/2025 / 7
- · 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

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

Corrosive to Metals 1: Corrosive to metals - Category 1

Acute Toxicity - Inhalation 4: Acute toxicity - Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

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

Carcinogenicity 1A: Carcinogenicity - Category 1A

Toxic to Reproduction 1A: Reproductive toxicity - Category 1A

* Data compared to the previous version altered.

-US