

Printing date 07/02/2018 Review date 07/02/2018

1 Identification

- · Product identifier
- · Trade name: STD, Contract Required Detection Limit
- · Article number N9303819
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer, Inc.

710 Bridgeport Avenue

Shelton, Connecticut 06484 USA

CustomerCareUS@perkinelmer.com

203-925-4600

· Emergency telephone number:

CHEMTREC (within US) 800-424-9300

CHEMTREC (from outside US) +1 703-527-3887 (call collect)

CHEMTREC (within AU) +(61)-290372994

2 Hazard(s) identification

· Classification of the substance or mixture



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

Eye Dam. 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.

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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)



3 Health = 3

Fire = 0

REACTIVITY 0 Reactivity = 0

· Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

7732-18-5 water

- · Identification number(s)
- · EC number: 231-791-2
- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

7697-37-2	Nitric Acid	© Ox. Liq. 2, H272 Skin Corr. 1A, H314
Additional	Components	
7440-70-2	calcium Water-react. 2, H261	0.05%
7439-95-4	magnesium Pyr. Sol. 1, H250; Water-react. 1, H260	0.05%
7440-09-7	potassium Water-react. 1, H260 Skin Corr. 1B, H314	0.05%
7440-23-5	sodium Water-react. 1, H260 Skin Corr. 1B, H314	0.05%
7440-62-2	vanadium	0.005%



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7440-39-3		0.002
	Water-react. 2, H261	
7429-90-5		0.002
7439-89-6	iron	0.001
147-71-7	(-)-tartaric acid	0.001
	💠 Skin Irrit. 2, H315	
7440-36-0	antimony	0.0006
7440-48-4	cobalt	0.0003
	Resp. Sens. 1, H334; Carc. 2, H351 Skin Sens. 1, H317	
7440-02-0	nickel	0.0004
	© Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	
7440-50-8	copper	0.0003
1317-35-7	trimanganese tetraoxide	0.0002
7440-66-6	zinc	0.0002
	♦ Water-react. 2, H261	
7782-49-2	selenium	0.0001
	Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373	
7440-22-4	silver	0.0001
7440-43-9	cadmium (non-pyrophoric)	0.0001
	Acute Tox. 2, H330 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	
7439-92-1	lead	0.0001
	♦ Acute Tox. 3, H301	
	& Carc. 2, H351; Repr. 1A, H360-H362	
	♦ Acute Tox. 4, H332	
7440-28-0		0.0001
	Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373	
7440-38-2		0.0001
/440-36-2	Arsenic Arsenic Acute Tox. 3, H301; Acute Tox. 3, H331	
	Carc. 1A, H350	
7440-41-7	beryllium	0.0001
	Acute Tox. 3, H301; Acute Tox. 2, H330 Carc. 1B, H350; STOT RE 1, H372	
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
7440-47-3	chromium	0.0001
7732-18-5	Water	94.786



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

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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).

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

PAC-1:		
7697-37-2	Nitric Acid	0.16 ppm
7439-95-4	magnesium	18 mg/m³
7440-09-7	potassium	2.3 mg/m^3
7440-23-5	sodium	13 mg/m³
7440-62-2	vanadium	3 mg/m^3
7440-39-3	barium	1.5 mg/m^3
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7420 00 6		(Contd. of pag
7439-89-6		3.2 mg/m³
7440-36-0		1.5 mg/m^3
7440-48-4		0.18 mg/m^3
7440-02-0		4.5 mg/m^3
7440-50-8		$3 mg/m^3$
	rimanganese tetraoxide	4.2 mg/m^3
7440-66-6		6 mg/m^3
7782-49-2		0.6 mg/m^3
7440-22-4		0.3 mg/m^3
7440-43-9	cadmium (non-pyrophoric)	0.10 mg/m^3
7439-92-1	ead	0.15 mg/m^3
7440-28-0	hallium	0.06 mg/m^3
7440-38-2	4rsenic	1.5 mg/m^3
7440-41-7	beryllium	0.0023 mg/r
7440-47-3	chromium	1.5 mg/m^3
· PAC-2:		·
7697-37-2	Nitric Acid	24 ppm
7439-95-4	nagnesium	200 mg/m^3
7440-09-7	=	25 mg/m^3
7440-23-5		140 mg/m^3
7440-62-2	vanadium	5.8 mg/m^3
7440-39-3	barium	180 mg/m^3
7439-89-6	ron	35 mg/m^3
7440-36-0	untimony	13 mg/m^3
7440-48-4	-	$2 mg/m^3$
7440-02-0	nickel	50 mg/m^3
7440-50-8		33 mg/m³
	rimanganese tetraoxide	6.9 mg/m³
7440-66-6		21 mg/m³
7782-49-2		6.6 mg/m^3
7440-22-4		170 mg/m ³
	cadmium (non-pyrophoric)	0.76 mg/m
7439-92-1	, 12 1	120 mg/m ³
7440-28-0		3.3 mg/m^3
7440-38-2		17 mg/m³
7440-41-7		0.025 mg/n
7440-47-3	•	17 mg/m^3
• PAC-3:		17 mg/m
7697-37-2	Nitric Acid	92 ppm
	nagnesium	1,200 mg/n



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7440-09-7	notassium	(Contd. of page 150 mg/m³
7440-03-7		870 mg/m^3
7440-62-2		35 mg/m^3
7440-39-3		1,100 mg/m
7439-89-6	iron	150 mg/m^3
7440-36-0	antimony	80 mg/m³
7440-48-4	cobalt	20 mg/m^3
7440-02-0	nickel	99 mg/m³
7440-50-8	copper	200 mg/m^3
1317-35-7	trimanganese tetraoxide	41 mg/m³
7440-66-6	zinc	120 mg/m³
7782-49-2	selenium	40 mg/m^3
7440-22-4	silver	990 mg/m³
7440-43-9	cadmium (non-pyrophoric)	4.7 mg/m^3
7439-92-1	lead	700 mg/m³
7440-28-0	thallium	20 mg/m³
7440-38-2	Arsenic	100 mg/m^3
7440-41-7	beryllium	0.1 mg/m^3
7440-47-3	chromium	99 mg/m³

7 Handling and storage

- · Handling:
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: The product is not flammable.
- · 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:

7697-37-2 Nitric Acid

PEL Long-term value: 5 mg/m³, 2 ppm

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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

- · 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.

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. 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles or safety glasses

9 Physical and chemical properties

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

Form: Liquid
Color: Transparent
Odor: Odorless
Odor threshold: Not determined.

· pH-value: Not determined.

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		(Contd. of page
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.	
Auto igniting:	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 g/cm³ (8.345 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/wate	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	94.8 %	
VOC content:	0.00 %	
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.

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · 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

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 (Inte	ernational Agency for Research on Cancer)	
7440-48-4	cobalt	2B
7440-02-0	nickel	2B
7782-49-2	selenium	3
7440-43-9	cadmium (non-pyrophoric)	1
7439-92-1	lead	2B
7440-38-2	Arsenic	1
7440-41-7	beryllium	1
7440-47-3	chromium	3
· NTP (Nati	onal Toxicology Program)	
7440-48-4	cobalt	R
7440-02-0	nickel	R
7440-43-9	cadmium (non-pyrophoric)	K
7439-92-1	lead	R
7440-38-2	Arsenic	K
7440-41-7	beryllium	K
· OSHA-Ca	(Occupational Safety & Health Administration)	
7440-43-9	cadmium (non-pyrophoric)	
7440-38-2	Arsenic	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. 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:

Dispose of container and materials in accordance with local, regional and national regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

ransport		

· 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)

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



· Class 8 Corrosive substances

· Label

 $\cdot ADR$



Class 8 (C1) Corrosive substances

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	(Contd. of page
Label	8
IMDG, IATA	
<u></u>	
u	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler): EMS Number:	80 F-A,S-B
EMIS Number: Segregation groups	г-A,5-D 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
ADR	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
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 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.
	(NITRIC ACID), 8, III

Safety, hea	lth and environmental regula	tions/legislation specific for the substance or mix	xture
7732-18-5	Water		94.786%
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%



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7/20 05 /	T	(Contd. of p	page 05%
Sara	magnesium	⋄ <i>Pyr. Sol. 1, H250; Water-react. 1, H260</i> 0.0	03%
	5 (outnomedy bazandous substances).		
	5 (extremely hazardous substances): Nitric Acid		
	3 (Specific toxic chemical listings):		
	Nitric Acid		
	vanadium		
7440-39-3	1		
	aluminium		
7440-36-0	1		
7440-48-4			
7440-02-0			
7440-50-8			
	trimanganese tetraoxide		
7440-66-6			
7782-49-2	selenium		
7440-22-4	silver		
7440-43-9	cadmium (non-pyrophoric)		
7439-92-1	lead		
7440-28-0	thallium		
7440-38-2	Arsenic		
7440-41-7	beryllium		
7440-47-3	chromium		
	xic Substances Control Act):		
_	ents are listed.		
	Nitric Acid		
7440-70-2	1		
	magnesium		
	potassium		
7440-23-5	sodium		
	vanadium		
7440-62-2			
7440-62-2 7440-39-3	barium		
7440-39-3	barium aluminium		
7440-39-3	aluminium		
7440-39-3 7429-90-5 7439-89-6	aluminium		
7440-39-3 7429-90-5 7439-89-6 147-71-7	aluminium iron		
7440-39-3 7429-90-5 7439-89-6 147-71-7	aluminium iron (-)-tartaric acid antimony		
7440-39-3 7429-90-5 7439-89-6 147-71-7 7440-36-0	aluminium iron (-)-tartaric acid antimony cobalt		
7440-39-3 7429-90-5 7439-89-6 147-71-7 7440-36-0 7440-48-4	aluminium iron (-)-tartaric acid antimony cobalt nickel		



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		(Contd. of pag
7440-66-6		
7782-49-2		
7440-22-4		
	cadmium (non-pyrophoric)	
7439-92-1		
7440-28-0		
7440-38-2		
7440-41-7	-	
7440-47-3		
7732-18-5	Water	
· Proposition	65	
· Chemicals	known to cause cancer:	
7440-48-4	cobalt	
7440-02-0	nickel	
	cadmium (non-pyrophoric)	
7439-92-1	lead	
7440-38-2	Arsenic	
7440-41-7	beryllium	
Chemicals	known to cause reproductive toxicity for females:	
7439-92-1	lead	
Chemicals	known to cause reproductive toxicity for males:	
7440-43-9	cadmium (non-pyrophoric)	
7439-92-1	lead	
· Chemicals	known to cause developmental toxicity:	
7440-43-9	cadmium (non-pyrophoric)	
7439-92-1	lead	
Cancaraga	nity categories	
	conmental Protection Agency)	
7440-39-3		D, CBD(inh), NL(oral
7440-59-8		D, CBD(init), NE(orati
	trimanganese tetraoxide	D D
7440-66-6		D, I, II
7782-49-2		D, I, II D
7440-22-4		D D
		D B1
	cadmium (non-pyrophoric)	
7439-92-1		B2
7440-38-2		A PL K/L(: 1) CPD(
7440-41-7		B1, K/L(inh), CBD(or
/440-47-3	chromium	D



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TLV (Threshold Limit Value established by ACGIH)	
7440-39-3 barium	A4
7429-90-5 aluminium	A4
7440-48-4 cobalt	A3
7440-02-0 nickel	A5
7440-43-9 cadmium (non-pyrophoric)	A2
7439-92-1 lead	A3
7440-38-2 Arsenic	Al
7440-41-7 beryllium	Al
7440-47-3 chromium	A4
NIOSH-Ca (National Institute for Occupational Safety and Health	<i>i</i>)
7440-02-0 nickel	
7440-43-9 cadmium (non-pyrophoric)	
7440-38-2 Arsenic	
7440-41-7 beryllium	

- · National regulations:
- · Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer shall not be held liable for any damage resulting from handling or from contact with the product.

- · Department issuing SDS: Environmental, Health and Safety
- · Contact:

Within the USA: 1-(800)-762-4000 Outside the USA: 1-(203)-712-8488

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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

ACGIH: American Conference of Governmental Industrial Hygienists

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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)

VOC: Volatile Organic Compounds (USA, EU) 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 Ox. Liq. 2: Oxidizing liquids – Category 2

Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

* Data compared to the previous version altered.

HZA