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acc. to OSHA HCS

Printing date 06/13/2018

Review date 06/13/2018

1 Identification	1
· Product identif	ier
· Trade name: P	erkinElmer Pure X
· Article number	
• Application of	the substance / the mixture Laboratory chemicals
• Details of the s	upplier of the safety data sheet
• Manufacturer/	
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PerkinElmer, Ir	
710 Bridgeport	
	cticut 06484 USA JS@perkinelmer.com
203-925-4600	/s@perkineimer.com
• Emergency tele	phone number:
	vithin US) 800-424-9300
CHEMTREC (f	rom outside US) +1 703-527-3887 (call collect)
CHEMTREC (v	vithin AU) +(61)-290372994
2 Hazard(s) id	entification
· Classification of	f the substance or mixture
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$\langle \rangle$	
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Skin Irrit. 2 H	315 Causes skin irritation.
	319 Causes serious eye irritation.
· Label elements	
· GHS label elem · Hazard pictogr	nents The product is classified and labeled according to the Globally Harmonized System (GHS).
· Signal word Wa	
· Hazard stateme	
H315 Causes sh	
H319 Causes se	prious eye irritation.
· Precautionary	
P264	Wash thoroughly after handling.
P280	Wear protective gloves / eye protection / face protection.
P302+P352 P321	If on skin: Wash with plenty of water. Specific treatment (see on this label).
	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese
1 5 55 11 551 1	and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
· Classification s	
· NFPA ratings (scale 0 - 4)
E E	Iealth = 1
	iire = 0
	Peactivity = 0
	(Contd. on page



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· HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE0Fire = 0REACTIVITY0Reactivity = 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: Mixtures

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

7440-70-2	calcium	🚸 Water-react. 2, H261	3.5%
7697-37-2	Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	2.0%
7439-95-4	magnesium	🚸 Pyr. Sol. 1, H250; Water-react. 1, H260	1.5%
Additional	Components		
7440-23-5	sodium Water-react. 1, H260 Skin Corr. 1B, H314		0.8%
7440-09-7	potassium Water-react. 1, H260 Skin Corr. 1B, H314		0.3%
7439-98-7	molybdenum		0.01%
7440-24-6	strontium Water-react. 1, H260		0.01%
7440-42-8			0.01%
7439-89-6			0.01%
7440-02-0	0 nickel Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317		0.005%
7440-62-2	vanadium		0.005%
7440-66-6	zinc 🐼 Water-react. 2, H261		0.005%
7440-38-2	•	31	0.005%



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7440-39-3	barium	(Contd. of pag 0.0052
,	Water-react. 2, H261	
7439-96-5	manganese	0.0039
7439-92-1	lead Acute Tox. 3, H301 Carc. 2, H351; Repr. 1A, H360-H362 Acute Tox. 4, H332	0.0025
7440-48-4	cobalt Resp. Sens. 1, H334; Carc. 2, H351 Skin Sens. 1, H317	0.0025
7440-47-3	chromium	0.0029
7440-50-8	copper	0.0029
7440-41-7	beryllium 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	0.0029
7440-43-9	cadmium (non-pyrophoric) Acute Tox. 2, H330 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	0.0029
7440-28-0	thallium Acute Tox. 2, H300; Acute Tox. 2, H330 STOT RE 2, H373	0.0019
7440-69-9	bismuth	0.0019
7782-49-2	selenium Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373	0.0019
7732-18-5	Water	91.816

4 First-aid measures

· Description of first aid measures

- 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.
- 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.

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· Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. • 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

7697-37-2 Nitric Acid	0.16 ppm
7439-95-4 magnesium	18 mg/m ³
7440-23-5 sodium	13 mg/m ³
7440-09-7 potassium	$2.3 mg/m^3$
7439-98-7 molybdenum	30 mg/m ³
7440-24-6 strontium	30 mg/m ³
7440-42-8 boron	1.9 mg/m ³
7439-89-6 iron	3.2 mg/m ³
7440-02-0 nickel	4.5 mg/m ³
7440-62-2 vanadium	3 mg/m ³
7440-66-6 zinc	6 mg/m ³
7440-38-2 Arsenic	1.5 mg/m ³
7440-39-3 barium	1.5 mg/m ³
7439-96-5 manganese	3 mg/m ³
7439-92-1 lead	0.15 mg/m ³
7440-48-4 cobalt	0.18 mg/m ³
7440-47-3 chromium	1.5 mg/m ³
7440-50-8 copper	3 mg/m ³
7440-41-7 beryllium	0.0023 mg/n
7440-43-9 cadmium (non-pyrophoric)	0.10 mg/m ³
7440-28-0 thallium	$0.06 mg/m^3$
7440-69-9 bismuth	15 mg/m ³
7782-49-2 selenium	0.6 mg/m ³
PAC-2:	•
7697-37-2 Nitric Acid	24 ppm
7439-95-4 magnesium	200 mg/m ³
7440-23-5 sodium	140 mg/m ³



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7439-98-7 molybdenum 330 mg/m ³ 7440-24-6 strontium 330 mg/m ³ 7440-42-8 boron 21 mg/m ³ 7439-89-6 iron 35 mg/m ³ 7440-02-0 nickel 50 mg/m ³ 7440-02-2 vanadium 5.8 mg/m ³ 7440-66 zinc 21 mg/m ³ 7440-66 zinc 21 mg/m ³ 7440-39-3 barium 180 mg/m ³ 7440-39-4 charium 180 mg/m ³ 7440-47-3 chromium 120 mg/m ³ 7440-47-3 chromium 17 mg/m ³ 7440-47-3 chromium 17 mg/m ³ 7440-47-3 chromium 17 mg/m ³ 7440-47-3 chromium 0.025 mg/m ³ 7440-47-4 cobalt 2 mg/m ³ 7440-47-5 berylinm 0.025 mg/m ³ 7440-47-7 berylinm 0.025 mg/m ³ 7440-47-8 cohntin (no-pyrophoric) 0.76 mg/m 7440-47-9 bisnuth 170 mg/m ³ 7440-47-9 bisnuth 170 mg/m ³ 7440-47-1 berylin <th>7440 00 7</th> <th>notassium</th> <th>(Contd. of page 25 mg/m³</th>	7440 00 7	notassium	(Contd. of page 25 mg/m ³
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7440-69-9 bismuth 170 mg/m³ 7782-49-2 selenium 6.6 mg/m³ PAC-3: 7697-37-2 Nitric Acid 92 ppm 7439-95-4 magnesium 1,200 mg/m³ 7440-03-7 potassium 1,200 mg/m³ 7440-09-7 potassium 150 mg/m³ 7439-98-7 molybdenum 2,000 mg/m³ 7440-04-7 strontium 2,000 mg/m³ 7440-24-6 strontium 2,000 mg/m³ 7440-24-6 strontium 130 mg/m³ 7440-02-0 nickel 99 mg/m³ 7440-62-2 vanadium 35 mg/m³ 7440-62-2 vanadium 35 mg/m³ 7440-66-6 sinc 120 mg/m³ 7440-66-6 sinc 120 mg/m³ 7440-66-6 sinc 100 mg/m³ 7440-67-5 magnaese 1,800 mg/m³ 7440-68-4 cobalt 20 mg/m³ 7440-64-5 screic 20 mg/m³ 7440-65-6 screic 100 mg/m³ 7440-65-7 maganese 1,800 mg/m³ 7440-48-4 <td></td> <td></td> <td></td>			
7782-49-2 selenium 6.6 mg/m³ PAC-3: 7697-37-2 Nitric Acid 92 ppm 7439-95-4 magnesium 1,200 mg/m 7440-23-5 sodium 870 mg/m³ 7440-09-7 potassium 150 mg/m³ 7439-98-7 molybdenum 2,000 mg/m 7440-24-6 strontium 2,000 mg/m 7440-24-6 strontium 130 mg/m³ 7440-22-6 iron 130 mg/m³ 7440-02-0 nickel 99 mg/m³ 7440-62-2 vanadium 35 mg/m³ 7440-66-6 zinc 120 mg/m³ 7440-66-6 zinc 120 mg/m³ 7440-88-2 Arsenic 100 mg/m³ 7440-89-5 barium 1,100 mg/m³ 7440-89-5 barium 1,100 mg/m³ 7440-48-4 cobalt 20 mg/m³ 7440-48-4 cobalt 20 mg/m³ 7440-48-4 cobalt 20 mg/m³ 7440-48-4 cobalt 20 mg/m³ 7440-48-8 copper 200 mg/m³			
PAC-3: 92 ppm 7697-37-2 Nitric Acid 92 ppm 7439-95-4 magnesium 1,200 mg/m 7440-23-5 sodium 870 mg/m ³ 7440-09-7 potassium 150 mg/m ³ 7440-09-7 potassium 150 mg/m ³ 7440-09-7 potassium 2,000 mg/m ³ 7440-24-6 strontium 2,000 mg/m ³ 7440-24-6 strontium 2,000 mg/m ³ 7440-24-6 strontium 130 mg/m ³ 7440-62-2 vanadium 150 mg/m ³ 7440-62-2 vanadium 35 mg/m ³ 7440-64-5 zinc 120 mg/m ³ 7440-65-6 zinc 120 mg/m ³ 7440-65-6 zinc 100 mg/m ³ 7440-65-6 zinc 100 mg/m ³ 7440-65-6 zinc 100 mg/m ³ 7440-65-7 magnese 1,800 mg/m ³ 7440-65-8 cobalt 20 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-48-5-8 copper 200 mg/m ³ <td></td> <td></td> <td>ů –</td>			ů –
7697-37-2 Nitric Acid 92 ppm 7439-95-4 magnesium 1,200 mg/m ³ 7440-23-5 sodium 870 mg/m ³ 7440-09-7 potassium 150 mg/m ³ 7439-98-7 molybdenum 2,000 mg/m 7440-24-6 strontium 2,000 mg/m 7440-24-6 strontium 2,000 mg/m 7440-24-6 strontium 130 mg/m ³ 7440-22-0 nickel 99 mg/m ³ 7440-62-2 vanadium 35 mg/m ³ 7440-62-2 vanadium 35 mg/m ³ 7440-64 zinc 120 mg/m ³ 7440-65-6 zinc 120 mg/m ³ 7440-83-2 Arsenic 100 mg/m ³ 7440-64-5 inc 100 mg/m ³ 7440-65-6 zinc 100 mg/m ³ 7440-65-7 magnese 1,800 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-48-8 cobalt 20 mg/m	7782-49-2	selenium	$6.6 \ mg/m^3$
7439-95-4 magnesium 1,200 mg/m 7440-23-5 sodium 870 mg/m ³ 7440-09-7 potassium 150 mg/m ³ 7439-98-7 molybdenum 2,000 mg/m 7440-24-6 strontium 2,000 mg/m 7440-24-6 strontium 2,000 mg/m 7440-24-6 strontium 2,000 mg/m 7440-42-8 boron 130 mg/m ³ 7440-20-0 nickel 99 mg/m ³ 7440-62-2 vanadium 35 mg/m ³ 7440-62-2 vanadium 35 mg/m ³ 7440-64-6 zinc 120 mg/m ³ 7440-65-6 zinc 120 mg/m ³ 7440-38-2 Arsenic 100 mg/m ³ 7440-39-3 barium 1,100 mg/m 7439-96-5 maganese 1,800 mg/m ³ 7440-39-5 maganese 1,800 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-48-5 copper 200 mg/m ³	PAC-3:		
7440-23-5 sodium 870 mg/m ³ 7440-09-7 potassium 150 mg/m ³ 7439-98-7 molybdenum 2,000 mg/m 7440-24-6 strontium 2,000 mg/m 7440-42-8 boron 130 mg/m ³ 7440-42-8 boron 130 mg/m ³ 7440-42-8 boron 150 mg/m ³ 7440-42-8 boron 150 mg/m ³ 7440-62-0 nickel 99 mg/m ³ 7440-62-2 vanadium 35 mg/m ³ 7440-62-2 vanadium 120 mg/m ³ 7440-63 zinc 120 mg/m ³ 7440-64 zinc 100 mg/m ³ 7440-50-5 manganese 1,800 mg/m ³ 7440-39-3 barium 1,100 mg/m ³ 7440-42-4 cobalt 20 mg/m ³ 7440-43 cobalt 20 mg/m ³	7697-37-2	Nitric Acid	92 ppm
7440-09-7 potassium 150 mg/m³ 7439-98-7 molybdenum 2,000 mg/m 7440-24-6 strontium 2,000 mg/m 7440-42-8 boron 130 mg/m³ 7440-42-8 boron 130 mg/m³ 7440-42-8 boron 150 mg/m³ 7440-42-8 boron 150 mg/m³ 7440-42-8 boron 150 mg/m³ 7440-02-0 nickel 99 mg/m³ 7440-62-2 vanadium 35 mg/m³ 7440-64-6 zinc 120 mg/m³ 7440-65-6 zinc 100 mg/m³ 7440-38-2 Arsenic 100 mg/m³ 7440-39-3 barium 1,100 mg/m³ 7439-96-5 manganese 1,800 mg/m³ 7439-92-1 lead 700 mg/m³ 7440-48-4 cobalt 20 mg/m³ 7440-48-4 cobalt 20 mg/m³ 7440-47-3 chromium 99 mg/m³ 7440-50-8 copper 200 mg/m³	7439-95-4	magnesium	1,200 mg/m ⁻
7439-98-7 molybdenum 2,000 mg/m 7440-24-6 strontium 2,000 mg/m 7440-42-8 boron 130 mg/m ³ 7439-89-6 iron 150 mg/m ³ 7440-02-0 nickel 99 mg/m ³ 7440-62-2 vanadium 35 mg/m ³ 7440-62-2 vanadium 35 mg/m ³ 7440-64-6 zinc 120 mg/m ³ 7440-65-6 zinc 120 mg/m ³ 7440-65-6 zinc 100 mg/m ³ 7440-39-3 barium 1,100 mg/m 7439-96-5 manganese 1,800 mg/m 7439-92-1 lead 700 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-50-8 copper 200 mg/m ³	7440-23-5	sodium	870 mg/m ³
7440-24-6 strontium 2,000 mg/m 7440-42-8 boron 130 mg/m ³ 7439-89-6 iron 150 mg/m ³ 7440-02-0 nickel 99 mg/m ³ 7440-62-2 vanadium 35 mg/m ³ 7440-66-6 zinc 120 mg/m ³ 7440-38-2 Arsenic 100 mg/m ³ 7440-39-3 barium 1,100 mg/m 7439-96-5 manganese 1,800 mg/m 7439-92-1 lead 700 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-47-3 chromium 99 mg/m ³	7440-09-7	potassium	150 mg/m ³
7440-42-8 boron 130 mg/m³ 7439-89-6 iron 150 mg/m³ 7440-02-0 nickel 99 mg/m³ 7440-62-2 vanadium 35 mg/m³ 7440-66-6 zinc 120 mg/m³ 7440-38-2 Arsenic 100 mg/m³ 7440-39-3 barium 1,100 mg/m³ 7440-39-3 barium 1,800 mg/m³ 7440-39-4 cobalt 20 mg/m³ 7440-47-3 chromium 99 mg/m³	7439-98-7	molybdenum	2,000 mg/m
7439-89-6iron150 mg/m³7440-02-0nickel99 mg/m³7440-62-2vanadium35 mg/m³7440-66-6zinc120 mg/m³7440-38-2Arsenic100 mg/m³7440-39-3barium1,100 mg/m³7440-39-5manganese1,800 mg/m³7439-96-5manganese1,800 mg/m³7440-48-4cobalt20 mg/m³7440-47-3chromium99 mg/m³7440-47-3chromium200 mg/m³	7440-24-6	strontium	2,000 mg/m
7440-02-0 nickel 99 mg/m³ 7440-62-2 vanadium 35 mg/m³ 7440-66-6 zinc 120 mg/m³ 7440-38-2 Arsenic 100 mg/m³ 7440-39-3 barium 1,100 mg/m³ 7439-96-5 maganese 1,800 mg/m³ 7440-48-4 cobalt 20 mg/m³ 7440-47-3 chromium 99 mg/m³	7440-42-8	boron	130 mg/m ³
7440-62-2 vanadium 35 mg/m³ 7440-66-6 zinc 120 mg/m³ 7440-38-2 Arsenic 100 mg/m³ 7440-39-3 barium 1,100 mg/m 7439-96-5 manganese 1,800 mg/m³ 7440-48-4 cobalt 20 mg/m³ 7440-47-3 chromium 99 mg/m³ 7440-50-8 copper 200 mg/m³	7439-89-6	iron	150 mg/m ³
7440-62-2 vanadium 35 mg/m³ 7440-66-6 zinc 120 mg/m³ 7440-38-2 Arsenic 100 mg/m³ 7440-39-3 barium 1,100 mg/m 7439-96-5 manganese 1,800 mg/m³ 7440-48-4 cobalt 20 mg/m³ 7440-47-3 chromium 99 mg/m³ 7440-50-8 copper 200 mg/m³	7440-02-0	nickel	99 mg/m ³
7440-38-2 Arsenic 100 mg/m ³ 7440-39-3 barium 1,100 mg/m ³ 7439-96-5 manganese 1,800 mg/m 7439-92-1 lead 700 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-47-3 chromium 99 mg/m ³ 7440-50-8 copper 200 mg/m ³	7440-62-2	vanadium	
7440-39-3 barium 1,100 mg/m 7439-96-5 manganese 1,800 mg/m 7439-92-1 lead 700 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-47-3 chromium 99 mg/m ³ 7440-50-8 copper 200 mg/m ³	7440-66-6	zinc	120 mg/m ³
7440-39-3 barium 1,100 mg/m 7439-96-5 manganese 1,800 mg/m 7439-92-1 lead 700 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-47-3 chromium 99 mg/m ³ 7440-50-8 copper 200 mg/m ³	7440-38-2	Arsenic	100 mg/m ³
7439-92-1 lead 700 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-47-3 chromium 99 mg/m ³ 7440-50-8 copper 200 mg/m ³	7440-39-3	barium	1,100 mg/m ⁻
7439-92-1 lead 700 mg/m ³ 7440-48-4 cobalt 20 mg/m ³ 7440-47-3 chromium 99 mg/m ³ 7440-50-8 copper 200 mg/m ³	7439-96-5	manganese	1,800 mg/m ⁻
7440-48-4 cobalt 20 mg/m³ 7440-47-3 chromium 99 mg/m³ 7440-50-8 copper 200 mg/m³			700 mg/m ³
7440-47-3 chromium 99 mg/m³ 7440-50-8 copper 200 mg/m³			
7440-50-8 copper 200 mg/m ³			0
		beryllium	$0.1 \ mg/m^3$



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		(Contd. of page 5)
7440-43-9	cadmium (non-pyrophoric)	$4.7 \ mg/m^3$
7440-28-0	thallium	$20 mg/m^3$
7440-69-9	bismuth	990 mg/m ³
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 item 7.

· Control parameters

• Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this 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

• 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.

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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.
Experiment.
Tightly sealed goggles or safety glasses

Information on basic physical and c General Information	hemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
· Odor:	Acidic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 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)	



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		(Contd. of page 7
· Density:	Not determined.	
· 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/wo	uter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	91.8 %	
VOC content:	0.00 %	
Solids content:	6.2 %	
• 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:
- · 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 (Inte	· IARC (International Agency for Research on Cancer)	
7440-02-0	nickel	2B
7440-38-2	Arsenic	1
7439-92-1	lead	2B
	(Contd. on p	age 9)



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		(Contd. of page 8)
7440-48-4	cobalt	2B
7440-47-3	chromium	3
7440-41-7	beryllium	1
7440-43-9	cadmium (non-pyrophoric)	1
7782-49-2	selenium	3
· NTP (Natio	onal Toxicology Program)	
7440-02-0	nickel	R
7440-38-2	Arsenic	K
7439-92-1	lead	R
7440-48-4	cobalt	R
7440-41-7	beryllium	K
7440-43-9	cadmium (non-pyrophoric)	K
· OSHA-Ca	(Occupational Safety & Health Administration)	
7440-38-2	Arsenic	
7440-43-9	cadmium (non-pyrophoric)	

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:

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

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Transport information	
· 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)	
DOT	
Class Label	8 Corrosive substances 8
ADR	8 (C1) Corrosive substances
IMDG, IATA	
- Class - Label	8 Corrosive substances 8
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
• Special precautions for user • Danger code (Kemler): • EMS Number: • Segregation groups • Stowage Category	Warning: Corrosive substances 80 F-A,S-B Acids A
· Stowage Code · Transport in bulk according to Annex I	SW2 Clear of living quarters.
MARPOL73/78 and the IBC Code	Not applicable.
	(Contd. on page



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	(Contd. of page 10
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· ADR	
\cdot Excepted quantities (EQ)	Code: El
• • • • •	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
\cdot Limited quantities (LQ)	5L
\cdot Excepted quantities ($\widetilde{E}Q$)	Code: El
· · · · · · · · · · · · · · · · · · ·	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, hea	ulth and environmental regulations/legi	islation specific for the substance or mixture	
7732-18-5	Water		91.816%
7440-70-2	calcium	🐼 Water-react. 2, H261	3.5%
7697-37-2	Nitric Acid	 Ø Ox. Liq. 2, H272 Ø Skin Corr. 1A, H314 	2.0%
Sara	<u>.</u>	·	
Section 35.	5 (extremely hazardous substances):		
7697-37-2	Nitric Acid		
Section 31.	3 (Specific toxic chemical listings):		
7697-37-2	Nitric Acid		
7440-02-0	nickel		
7440-62-2	vanadium		
7440-66-6	zinc		
7440-38-2	Arsenic		
7440-39-3	barium		
7439-96-5	manganese		
7439-92-1	lead		
7440-48-4	cobalt		
7440-47-3	chromium		
7440-50-8	copper		
7440-41-7	beryllium		
	cadmium (non-pyrophoric)		



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	(Contd. of page 1
7440-28-0 thallium	
7782-49-2 selenium	
• TSCA (Toxic Substances C	ontrol Act):
All ingredients are listed.	
7440-70-2 calcium	
7697-37-2 Nitric Acid	
7439-95-4 magnesium	
7440-23-5 sodium	
7440-09-7 potassium	
7439-98-7 molybdenum	
7440-24-6 strontium	
7440-42-8 boron	
7439-89-6 iron	
7440-02-0 nickel	
7440-62-2 vanadium	
7440-66-6 zinc	
7440-38-2 Arsenic	
7440-39-3 barium	
7439-96-5 manganese	
7439-92-1 lead	
7440-48-4 cobalt	
7440-47-3 chromium	
7440-50-8 copper	
7440-41-7 beryllium	
7440-43-9 cadmium (non-p	yrophoric)
7440-28-0 thallium	
7440-69-9 bismuth	
7782-49-2 selenium	
7732-18-5 Water	
Proposition 65	
Chemicals known to cause	cancer:
7440-02-0 nickel	
7440-38-2 Arsenic	
7439-92-1 lead	
7440-48-4 cobalt	
7440-41-7 beryllium	
7440-43-9 cadmium (non-j	yrophoric)
Chemicals known to cause	reproductive toxicity for females:
7439-92-1 lead	×
I	(Contd. on page 1



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Chemicals	known to cause reproductive toxicity for males:	
7439-92-1	lead	
7440-43-9	cadmium (non-pyrophoric)	
Chemicals	known to cause developmental toxicity:	
7439-92-1	lead	
7440-43-9	cadmium (non-pyrophoric)	
Canceroge	nity categories	
-	ironmental Protection Agency)	
7440-42-8	boron	I (oral)
7440-66-6	zinc	D, I, II
7440-38-2	Arsenic	A
7440-39-3	barium	D, CBD(inh), NL(oral)
7439-96-5	manganese	D
7439-92-1	lead	B2
7440-47-3	chromium	D
7440-50-8	copper	D
7440-41-7	-	B1, K/L(inh), CBD(ora
	cadmium (non-pyrophoric)	B1
7782-49-2	selenium	D
TLV (Thre	shold Limit Value established by ACGIH)	
	molybdenum	A
7440-02-0	nickel	A
7440-38-2	Arsenic	A
7440-39-3	barium	A
7439-92-1	lead	A
7440-48-4	cobalt	A
7440-47-3	chromium	A
7440-41-7	beryllium	A
7440-43-9	cadmium (non-pyrophoric)	A
NIOSH-Co	a (National Institute for Occupational Safety and H	Iealth)
7440-02-0		
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.

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

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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
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)
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
Pyr. Sol. 1: Pyrophoric solids – Category 1
Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2
Ox. Liq. 2: Oxidizing liquids – Category 2
Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
• * Data compared to the previous version altered.
USA