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#### 1 Identification

- · Product identifier
- · Product Name: Analytes C (For ILM 05.2)
- · Part Name:

CL-INT-B3

CL-INT-B3N

- · Application of the substance / the mixture For Laboratory Use Only
- · Uses advised against Not for Human or Animal Use
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Spex CertiPrep, LLC.

203 Norcross Ave, Metuchen,

NJ 08840 USA

732-549-7144

USMet-CRMSales@antylia.com

- · Information department: product safety department
- · Emergency telephone number:

Emergency Phone Number (24 hours)

CHEMTREC (800-424-9300) Outside US: 703-527-3887

#### 2 Hazard(s) identification

· Classification of the substance or mixture



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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P264 Wash thoroughly after handling.
P280 Wear eye protection / face protection.
P302+P352 If on skin: Wash with plenty of water.
P321 Specific treatment (see on this label).

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

· NFPA ratings (scale 0 - 4)



Health = 2 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 0Reactivity = 0

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(Contd. of page 1)

- · 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:			
7697-37-2	7697-37-2   nitric acid   2.0%		
7664-39-3	hydrofluoric acid	0.1%	
	dentification of the substance/preparation		
7732-18-5	water, distilled, conductivity or of similar purity	97.7968%	
87-69-4	(+)-tartaric acid	0.1%	
7439-92-1		0.0002%	
7439-96-5	manganese	0.0002%	
7440-02-0	nickel	0.0002%	
7440-22-4	silver	0.0002%	
7440-28-0	thallium	0.0002%	
7440-36-0	antimony	0.0002%	
7440-38-2	arsenic	0.0002%	
7440-39-3	barium	0.0002%	
7440-41-7	beryllium	0.0002%	
7440-43-9	cadmium	0.0002%	
7440-47-3	chromium	0.0002%	
7440-48-4	cobalt	0.0002%	
7440-50-8	copper	0.0002%	
7440-62-2		0.0002%	
7440-66-6	zinc	0.0002%	
7782-49-2	selenium	0.0002%	

## 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Do not give anything to eat or drink Do not induce vomitting
- · 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.
- 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).
- · 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.



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(Contd. of page 2)

		Contd. of page 2
	Action Criteria for Chemicals	
• PAC-1:		To as
	nitric acid	0.16 ppm
	(+)-tartaric acid	1.6 mg/m³
	hydrofluoric acid	1.0 ppm
7439-92-1		0.15 mg/m <sup>3</sup>
	manganese	3 mg/m <sup>3</sup>
7440-02-0		4.5 mg/m <sup>3</sup>
7440-22-4		0.3 mg/m <sup>3</sup>
7440-28-0		0.06 mg/m³
7440-36-0		1.5 mg/m <sup>3</sup>
7440-38-2		1.5 mg/m <sup>3</sup>
7440-39-3		1.5 mg/m <sup>3</sup>
7440-41-7	beryllium	0.0023 mg/m <sup>3</sup>
7440-43-9	cadmium	0.10 mg/m³
7440-47-3	chromium	1.5 mg/m <sup>3</sup>
7440-48-4	cobalt	0.18 mg/m³
7440-50-8	copper	3 mg/m <sup>3</sup>
7440-62-2	vanadium	3 mg/m <sup>3</sup>
7440-66-6	zinc	6 mg/m <sup>3</sup>
7782-49-2	selenium	0.6 mg/m³
• PAC-2:		
	nitric acid	24 ppm
	(+)-tartaric acid	17 mg/m <sup>3</sup>
	hydrofluoric acid	24 ppm
7439-92-1		120 mg/m <sup>3</sup>
	manganese	5 mg/m <sup>3</sup>
7440-02-0		50 mg/m <sup>3</sup>
7440-22-4		170 mg/m <sup>3</sup>
7440-28-0		$3.3 \text{ mg/m}^3$
7440-36-0		13 mg/m <sup>3</sup>
7440-38-2		17 mg/m <sup>3</sup>
7440-38-2		180 mg/m <sup>3</sup>
7440-39-3		$0.025 \text{ mg/m}^{-3}$
7440-41-7		$0.023 \text{ mg/m}^3$
		_
	chromium	17 mg/m³
7440-48-4		2 mg/m <sup>3</sup>
7440-50-8		33 mg/m <sup>3</sup>
	vanadium	5.8 mg/m³
7440-66-6		21 mg/m <sup>3</sup>
7782-49-2	selenium	6.6 mg/m <sup>3</sup>
• PAC-3:		
	nitric acid	92 ppm
87-69-4	(+)-tartaric acid	100 mg/m³
	hydrofluoric acid	44 ppm
7439-92-1	lead	700 mg/m <sup>3</sup>
	manganese	1,800 mg/m <sup>2</sup>
7440-02-0		99 mg/m³
7440-22-4		990 mg/m³
7440-28-0		20 mg/m <sup>3</sup>
7440-36-0		80 mg/m <sup>3</sup>
7440-38-2		100 mg/m <sup>3</sup>
7440-39-3		1,100 mg/m
7440-41-7		0.1 mg/m <sup>3</sup>
7440-41-7		$\frac{0.1 \text{ mg/m}^3}{4.7 \text{ mg/m}^3}$
	chromium	99 mg/m <sup>3</sup>
		20 mg/m <sup>3</sup>
7440-48-4		Contd. on page /



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	(C	Contd. of page 3)
7440-50-8	copper	200 mg/m³
7440-62-2	vanadium	35 mg/m³
7440-66-6	zinc	120 mg/m³
7782-49-2	selenium	40 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: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · 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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

#### 7664-39-3 hydrofluoric acid

PEL Long-term value: 1\* mg/m³, 3 ppm

as F, \*sulfuric acid

REL | Long-term value: 2.5 mg/m³, 3 ppm Ceiling limit value: 5\* mg/m³, 6\* ppm

\*15-min, as F

TLV Long-term value: 0.5 ppm

Ceiling limit value: 2 ppm as F; Skin, BEI

#### Ingredients with biological limit values:

## 7664-39-3 hydrofluoric acid

BEI 3 mg/g creatinine

Medium: urine Time: prior to shift

Parameter: Fluorides (background, nonspecific)

10 mg/g creatinine

Medium: urine

Time: end of shift

Parameter: Fluorides (background, nonspecific)

- · 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.

· Respiratory protection: 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

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#### · 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:



# 9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
4	

· Appearance:

· Odor:

Form: Liquid

Color: According to product specification

Characteristic

· Odour Threshold: Not applicable. Not applicable. · pH-value:

· Change in condition

Melting point/Melting range: Undetermined. 100 °C (212 °F) Boiling point/Boiling range: · Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Decomposition temperature: Not applicable.

· Ignition temperature: Product is not selfigniting.

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

· Explosion limits:

Lower: Not applicable. Not applicable. Upper:

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

· Density at 20 °C (68 °F) 1.00173 g/cm<sup>3</sup> (8.35944 lbs/gal)

· Relative density Not applicable. Not applicable. · Vapor density · Evaporation rate Not applicable.

· Solubility in / Miscibility with

Fully miscible. Water:

· Partition coefficient (n-octanol/water): Not applicable.

· Viscosity:

Not applicable. Dynamic: Kinematic: Not applicable.

· Solvent content:

97.8% Water: **VOC** content: 0.00 % Solids content:

· 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.

(Contd. on page 6)



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#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

7697-37-2 nitric acid

Inhalative LC50/4 h 2.65 mg/l (ATE)

- · 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:

· Carcinogenic categories

7440-02-0       nickel         7440-38-2       arsenic         7440-41-7       beryllium         7440-43-9       cadmium         7440-47-3       chromium         7440-48-4       cobalt         7782-49-2       selenium         • NTP (National Toxicology Program)         7439-92-1       lead         7440-02-0       nickel         7440-38-2       arsenic         7440-41-7       beryllium         7440-48-4       cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2       arsenic		nic categories	
7440-02-0       nickel         7440-38-2       arsenic         7440-41-7       beryllium         7440-43-9       cadmium         7440-47-3       chromium         7440-48-4       cobalt         7782-49-2       selenium         • NTP (National Toxicology Program)         7439-92-1       lead         7440-02-0       nickel         7440-38-2       arsenic         7440-41-7       beryllium         7440-48-4       cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2       arsenic	· IARC (Inte	ernational Agency for Research on Cancer)	
7440-38-2 arsenic 7440-41-7 beryllium 7440-43-9 cadmium 7440-47-3 chromium 7440-48-4 cobalt 7782-49-2 selenium  NTP (National Toxicology Program)  7439-92-1 lead 7440-02-0 nickel 7440-38-2 arsenic  7440-41-7 beryllium 7440-43-9 cadmium 7440-43-9 cadmium 7440-43-9 cadmium 7440-43-9 cadmium 7440-43-9 cadmium 7440-48-4 cobalt  OSHA-Ca (Occupational Safety & Health Administration) 7440-38-2 arsenic	7439-92-1	lead	2 <i>B</i>
7440-41-7 beryllium 7440-43-9 cadmium 7440-48-4 cobalt 7782-49-2 selenium  • NTP (National Toxicology Program)  7439-92-1 lead 7440-02-0 nickel 7440-38-2 arsenic  7440-41-7 beryllium 7440-43-9 cadmium 7440-43-9 cadmium 7440-48-4 cobalt  • OSHA-Ca (Occupational Safety & Health Administration) 7440-38-2 arsenic	7440-02-0	nickel	2B
7440-43-9       cadmium         7440-47-3       chromium         7440-48-4       cobalt         7782-49-2       selenium         • NTP (National Toxicology Program)         7439-92-1       lead         7440-02-0       nickel         7440-38-2       arsenic         7440-41-7       beryllium         7440-48-4       cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2       arsenic	7440-38-2	arsenic	1
7440-47-3 chromium       .         7440-48-4 cobalt       .         7782-49-2 selenium       .         • NTP (National Toxicology Program)         7439-92-1 lead         7440-02-0 nickel         7440-38-2 arsenic         7440-41-7 beryllium         7440-43-9 cadmium         7440-48-4 cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2 arsenic	7440-41-7	beryllium	1
7440-48-4       cobalt       1         7782-49-2       selenium       2         • NTP (National Toxicology Program)         7439-92-1       lead         7440-02-0       nickel         7440-38-2       arsenic         7440-41-7       beryllium         7440-43-9       cadmium         7440-48-4       cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2       arsenic	7440-43-9	cadmium	1
7782-49-2       selenium         • NTP (National Toxicology Program)         7439-92-1       lead         7440-02-0       nickel         7440-38-2       arsenic         7440-41-7       beryllium         7440-43-9       cadmium         7440-48-4       cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2       arsenic	7440-47-3	chromium	3
· NTP (National Toxicology Program)         7439-92-1 lead         7440-02-0 nickel         7440-38-2 arsenic         7440-41-7 beryllium         7440-43-9 cadmium         7440-48-4 cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2 arsenic	7440-48-4	cobalt	2B
7439-92-1       lead         7440-02-0       nickel         7440-38-2       arsenic         7440-41-7       beryllium         7440-43-9       cadmium         7440-48-4       cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2       arsenic	7782-49-2	selenium	3
7440-02-0       nickel         7440-38-2       arsenic         7440-41-7       beryllium         7440-43-9       cadmium         7440-48-4       cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2       arsenic	· NTP (Natio	onal Toxicology Program)	
7440-38-2       arsenic         7440-41-7       beryllium         7440-43-9       cadmium         7440-48-4       cobalt         • OSHA-Ca (Occupational Safety & Health Administration)         7440-38-2       arsenic	7439-92-1	lead	R
7440-41-7         beryllium           7440-43-9         cadmium           7440-48-4         cobalt           • OSHA-Ca (Occupational Safety & Health Administration)           7440-38-2         arsenic	7440-02-0	nickel	R
7440-43-9         cadmium           7440-48-4         cobalt           • OSHA-Ca (Occupational Safety & Health Administration)           7440-38-2         arsenic	7440-38-2	arsenic	K
7440-48-4 cobalt  • OSHA-Ca (Occupational Safety & Health Administration) 7440-38-2 arsenic	7440-41-7	beryllium	K
· OSHA-Ca (Occupational Safety & Health Administration) 7440-38-2   arsenic	7440-43-9	cadmium	K
7440-38-2 arsenic	7440-48-4	cobalt	R
	7440-38-2	arsenic	
7440-43-9   cadmium	7440-43-9	cadmium	

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

 $Water\ hazard\ class\ 1\ (Self-assessment):\ slightly\ hazardous\ for\ water$ 

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: 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.



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14 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)	
· Class · Label	8 Corrosive substances
· ADR, IMDG, IATA	· · · · · · · · · · · · · · · · · · ·
· Class · Label	8 Corrosive substances 8
· Packing group · DOT, ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Segregation groups</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>Segregation Code</li> </ul>	Warning: Corrosive substances 80 F-A,S-B (SGG1) Acids A SW2 Clear of living quarters. SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	e Not applicable.
· Transport/Additional information:	
· 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) · Excepted quantities (EQ)	5L 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

# 15 Regulatory information

 $\cdot \textit{Safety, health and environmental regulations/legislation specific for the substance or \textit{mixture} \ \textit{No further relevant information available}. \\$ 

Sara	

· Sara	
	(Specific toxic chemical listings):
7697-37-2 1	
7664-39-3	hydrofluoric acid
7439-92-1 1	lead
7439-96-5 1	manganese
7440-02-0 1	nickel
7440-22-4 s	silver
$\overline{}$	

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		(Contd. of page 7)
7440-28-0		
7440-36-0		
7440-38-2		
7440-39-3		
7440-41-7		
7440-43-9	cadmium	
7440-47-3	chromium	
7440-48-4	cobalt	
7440-50-8	copper	
7440-62-2	vanadium	
7440-66-6	zinc	
7782-49-2	selenium	
· TSCA (Tox	cic Substances Control Act):	
All compor	ents have the value ACTIVE.	
· Hazardous	Air Pollutants	
	hydrofluoric acid	
7439-92-1	lead	
	manganese	
7440-48-4		
· Proposition	1 65	
· Chemicals	known to cause cancer:	
7439-92-1		
7440-02-0	nickel	
7440-38-2	arsenic	
7440-41-7		
7440-43-9	cadmium	
7440-48-4	cobalt	
	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
· Chemicals	known to cause reproductive toxicity for males:	
7440-43-9	cadmium	
· Chemicals	known to cause developmental toxicity:	
7440-43-9	cadmium	
· Carcinoge	nic categories	
· EPA (Envi	ronmental Protection Agency)	
7439-92-1	lead	B2
7439-96-5	manganese	D
7440-22-4	silver	D
7440-38-2		A
7440-39-3	barium	D, CBD(inh), NL(oral)
7440-41-7		B1, K/L(inh), CBD(oral)
7440-43-9	cadmium	B1
7440-50-8	copper	D
7440-66-6	zinc	D, I, II
7782-49-2	selenium	D
· TLV (Thre	shold Limit Value)	

		,
7439-92-1	lead	

7439-92-1	lead	A3
7440-02-0	nickel	A5
7440-38-2	arsenic	A1
7440-39-3	barium	A4
7440-43-9	cadmium	A2
7440-48-4	cobalt	A3

ATT O CITY C	/XY X Y		T C C . T TT T.T.
· NIIISH Ca	(National Institute	tor (lecunation	al Safety and Health)
· 1110511-Cu	(Ivanonai Insinae	joi Occupation	ai sajeiy ana meani)

	•	•	•	0 0	
7440-02-0	nickel				
7440-38-2	arsenic				
7440-43-9	cadmium				



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Product Name: Analytes C (For ILM 05.2)

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



- · Signal word Warning
- · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P264 Wash thoroughly after handling. P280 Wear eye protection / face protection. P302+P352 If on skin: Wash with plenty of water. P321 Specific treatment (see on this label).

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

· 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: product safety department
- · Contact:

Spex CertiPrep, LLC.

1-732-549-7144

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- · 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 Skin Irritation 2: Skin corrosion/irritation – Category 2

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

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