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## **1** Identification

- · Product identifier
- Product Name: <u>21-ELEMENT OIL STANDARD</u>
- · Part Number:
- S21-500Y
- S21-500Z
- · Application of the substance / the mixture Certified Reference Material
- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: SPEX CertiPrep, LLC. 203 Norcross Ave, Metuchen, NJ 08840 USA
- · 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 The product is not classified according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Not Regulated
- · Hazard pictograms Not Regulated
- · Signal word Not Regulated
- · Hazard statements Not Regulated
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Fire = 1Reactivity = 0

- · 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: Not Regulated	
· Chemical id	lentification of the substance/preparation	
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	98.95%
7439-89-6	iron	0.05%
7723-14-0	Phosphorus from Ammonium dihydrogenorthophosphate	0.05%
7440-21-3	alkali fluorosilicates (NH4)	0.05%
7440-62-2	Vanadium from Ammonium trioxovanadate	0.05%
7429-90-5	aluminium	0.05%
7440-42-8	Boron from Ammonium tetraborate tetrahydrate	0.05%
7440-43-9	cadmium (non-pyrophoric)	0.05%
7440-50-8	copper	0.05%
7439-96-5	manganese	0.05%
7440-66-6	zinc powder -zinc dust (pyrophoric)	0.05%
7440-02-0	nickel	0.05%
7439-92-1	Lead from Lead Oxide	0.05%
	·	(Contd. on page 2)

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#### Product Name: 21-ELEMENT OIL STANDARD

		(Contd. of page 1)
7440-32-6		0.05%
	magnesium	0.05%
7439-98-7	molybdenum	0.05%
7440-31-5		0.05%
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	0.05%
7440-23-5	Sodium from Sodium carbonate	0.05%
7440-22-4		0.05%
	Barium from Barium carbonate	0.05%
7440-70-2	Calcium from Calcium carbonate	0.05%

#### **4** First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation:
- Supply fresh air and to be sure call for a doctor.
- 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.
- After swallowing: If symptoms persist consult doctor.
- · Information for Doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **5** Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: 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). 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.

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- No special measures required.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Follow good laboratory practices.
- · 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: None.
- · Specific end use(s) No further relevant information available.

(Contd. on page 3)

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(Contd. of page 2)

## 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Immediately remove all soiled and contaminated clothing.
- · Breathing equipment:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

## 9 Physical and chemical properties

· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor: · Odour Threshold:	Characteristic Not applicable.
· Odour Inresnoua:	
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
<b>Boiling point/Boiling range:</b>	315 °C (599 °F)
· Flash point:	233 °C (451 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not applicable.
Upper:	Not applicable.
· Vapor pressure:	Not determined.
· Density	Not applicable.
· Relative density	Not applicable.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
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#### Product Name: 21-ELEMENT OIL STANDARD

		(Contd. of page 3)
· Partition coefficient (n-octand	l/water): Not applicable.	
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
• Solvent content: Organic solvents:	0.0 %	
Solids content: • Other information	1.0 % 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:

· LD/LC50 values that are relevant for classification:

7440-62-2 Vanadium from Ammonium trioxovanadate

Oral LD50 160 mg/kg (rat)

7440-43-9 cadmium (non-pyrophoric)

Oral LD50 225 mg/kg (rat)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Irritant

· Carcinogenic categories

· IARC (Inte	rnational Agency for Research on Cancer)	
7440-43-9	cadmium (non-pyrophoric)	1
7440-02-0	nickel	2B
7439-92-1	Lead from Lead Oxide	2B
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	3
	onal Toxicology Program)	
7440-43-9	cadmium (non-pyrophoric)	K
7440-02-0	nickel	R
7439-92-1	Lead from Lead Oxide	R
· OSHA-Ca	(Occupational Safety & Health Administration)	
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.

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# Safety Data Sheet acc. to OSHA HCS

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## Product Name: 21-ELEMENT OIL STANDARD

- · 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: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

#### **14 Transport information** · UN-Number · DOT, ADR, IMDG, IATA Not Regulated $\cdot$ UN proper shipping name · DOT, ADR, IMDG, IATA Not Regulated · Transport hazard class(es) · DOT, ADR, IMDG, IATA · Class Not Regulated · Packing group · DOT, ADR, IMDG, IATA Not Regulated · Environmental hazards: Not applicable. Not applicable. · Special precautions for user · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Not applicable. Code · UN "Model Regulation": Not Regulated

## **15 Regulatory information**

$\cdot$ Safety, health and environmental regulations/legislation specific for the substance or mixture $\cdot$ Sara	
· Section 355 (extremely hazardous substances):	
7723-14-0 Phosphorus from Ammonium dihydrogenorthophosphate	
Section 313 (Specific toxic chemical listings):	
7723-14-0 Phosphorus from Ammonium dihydrogenorthophosphate	
7440-62-2 Vanadium from Ammonium trioxovanadate	
7429-90-5 aluminium	
7440-43-9 cadmium (non-pyrophoric)	
7440-50-8 copper	
7439-96-5 manganese	
7440-66-6 zinc powder -zinc dust (pyrophoric)	
7440-02-0 nickel	
7439-92-1 Lead from Lead Oxide	
7440-47-3 Chromium from Chromium(III) nitrate nonahydrate	
7440-22-4 silver	
7440-39-3 Barium from Barium carbonate	
· TSCA (Toxic Substances Control Act):	
64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic	
7439-89-6 iron	
7723-14-0 Phosphorus from Ammonium dihydrogenorthophosphate	
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		(Contd. of page 5
	3 alkali fluorosilicates (NH4)	· · · · · · ·
	2 Vanadium from Ammonium trioxovanadate	
7429-90-5	5 aluminium	
7440-42-8	8 Boron from Ammonium tetraborate tetrahydrate	
7440-43-9	9 cadmium (non-pyrophoric)	
7440-50-8	3 copper	
	manganese	
7440-02-0		
7439-92-1	l Lead from Lead Oxide	
7440-32-6	*	
	4 magnesium	
	7 molybdenum	
7440-31-5		
	Chromium from Chromium(III) nitrate nonahydrate	
	5 Sodium from Sodium carbonate	
7440-22-4		
	Barium from Barium carbonate	
	2 Calcium from Calcium carbonate	
· Proposition		
	known to cause cancer:	
	cadmium (non-pyrophoric)	
7440-02-0		
	Lead from Lead Oxide	
	known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
· Chemicals	known to cause reproductive toxicity for males:	
7440-43-9	cadmium (non-pyrophoric)	
· Chemicals	known to cause developmental toxicity:	
	cadmium (non-pyrophoric)	
	nic categories	
	ronmental Protection Agency)	
	Boron from Ammonium tetraborate tetrahydrate	I (oral)
	cadmium (non-pyrophoric)	B1
7440-50-8		D
I	manganese	D
	zinc powder -zinc dust (pyrophoric)	11
7439-92-1	Lead from Lead Oxide	B2
7440-22-4	5	D2
	*	D
7440-39-3	*	D
	silver Barium from Barium carbonate	D
• TLV (Thres	silver Barium from Barium carbonate shold Limit Value established by ACGIH)	D D, CBD(inh), NL(oral,
• TLV (Thres 7429-90-5	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium	D D, CBD(inh), NL(oral A4
• TLV (Thres 7429-90-5 7440-43-9	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric)	D D, CBD(inh), NL(oral A4 A2
• TLV (Thres 7429-90-5 7440-43-9 7440-02-0	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel	D D, CBD(inh), NL(oral) A2 A2 A2 A2
• TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide	D D, CBD(inh), NL(oral A2 A2 A2 A2 A3 A4 A4 A4
• TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1 7439-98-7	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum	D           D, CBD(inh), NL(oral
• TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1 7439-98-7 7440-39-3	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate	D           D, CBD(inh), NL(oral
· TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1 7439-98-7 7440-39-3 · NIOSH-Ca	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate a (National Institute for Occupational Safety and Health)	D           D, CBD(inh), NL(oral
· TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1 7439-98-7 7440-39-3 · NIOSH-Ca 7440-43-9	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate a (National Institute for Occupational Safety and Health) cadmium (non-pyrophoric)	D           D, CBD(inh), NL(oral
• TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1 7439-98-7 7440-39-3 • NIOSH-Ca 7440-43-9 7440-02-0	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate a (National Institute for Occupational Safety and Health) cadmium (non-pyrophoric) nickel	D           D, CBD(inh), NL(oral           A4           A2           A3           A4           A4           A4           A4           A5           A4           A4           A4           A5           A4           A5           A4           A5           A4           A5           A4           A5           A4           A5           A5           A6           A6
• TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1 7439-98-7 7440-39-3 • NIOSH-Ca 7440-43-9 7440-02-0 • Protective	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate a (National Institute for Occupational Safety and Health) cadmium (non-pyrophoric)	D           D, CBD(inh), NL(oral           A4           A2           A3           A4           A4           A4           A4           A5           A4           A4           A4           A5           A4           A5           A4           A5           A4           A5           A4           A5           A4           A5           A5           A6           A6
• TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1 7439-98-7 7440-39-3 • NIOSH-Ca 7440-43-9 7440-02-0 • Protective 4 • PAC-1:	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate a (National Institute for Occupational Safety and Health) cadmium (non-pyrophoric) nickel Action Criteria for Chemicals	D D, CBD(inh), NL(oral A2 A2 A3 A3 A4 A4 A4 A4 A4 A4
• TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1 7439-98-7 7440-39-3 • NIOSH-Ca 7440-43-9 7440-02-0 • Protective A • PAC-1:	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate a (National Institute for Occupational Safety and Health) cadmium (non-pyrophoric) nickel	D D, CBD(inh), NL(oral A2 A2 A3 A3 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4
• TLV (Thres 7429-90-5 7440-43-9 7440-02-0 7439-92-1 7439-98-7 7440-39-3 • NIOSH-Ca 7440-43-9 7440-02-0 • Protective A • PAC-1:	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate a (National Institute for Occupational Safety and Health) cadmium (non-pyrophoric) nickel Action Criteria for Chemicals	D D, CBD(inh), NL(oral A2 A2 A2 A2 A2 A2 A2 A2 A2 A2
<ul> <li>TLV (Thress 7429-90-5</li> <li>7440-43-9</li> <li>7440-02-0</li> <li>7439-92-1</li> <li>7439-98-7</li> <li>7440-39-3</li> <li>NIOSH-Ca</li> <li>7440-43-9</li> <li>7440-02-0</li> <li>Protective A</li> <li>PAC-1:</li> <li>64742-65-0</li> <li>7439-89-6</li> </ul>	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate a (National Institute for Occupational Safety and Health) cadmium (non-pyrophoric) nickel Action Criteria for Chemicals	D D, CBD(inh), NL(oral, A4 A2 A2 A3 A3 A4 A4 A4 A4 A4 A4 A4 A4 A4 A4
<ul> <li>TLV (Thress</li> <li>7429-90-5</li> <li>7440-43-9</li> <li>7440-02-0</li> <li>7439-92-1</li> <li>7439-98-7</li> <li>7440-39-3</li> <li>NIOSH-Ca</li> <li>7440-43-9</li> <li>7440-02-0</li> <li>Protective A</li> <li>PAC-1:</li> <li>64742-65-0</li> <li>7439-89-6</li> <li>7723-14-0</li> </ul>	silver Barium from Barium carbonate shold Limit Value established by ACGIH) aluminium cadmium (non-pyrophoric) nickel Lead from Lead Oxide molybdenum Barium from Barium carbonate a (National Institute for Occupational Safety and Health) cadmium (non-pyrophoric) nickel Action Criteria for Chemicals	D D, CBD(inh), NL(oral, A4 A2 A5 A5 A3 A4 A4 A4 A4 A4 A4 A4

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7440 62 2	Varadium from Anno anium tuion on an a lata	(Contd. of pag
	Vanadium from Ammonium trioxovanadate	3 mg/m3
	Boron from Ammonium tetraborate tetrahydrate	1.9 mg/m.
	cadmium (non-pyrophoric)	0.10 mg/r
7440-50-8		3 mg/m3
	manganese	3 mg/m3
7440-02-0		4.5 mg/m.
	Lead from Lead Oxide	0.15 mg/r
7440-32-6		30 mg/m3
	magnesium	18 mg/m3
	molybdenum	30 mg/m3
7440-31-5		6 mg/m3
	Chromium from Chromium(III) nitrate nonahydrate	1.5 mg/m
7440-23-5	Sodium from Sodium carbonate	13 mg/m2
7440-22-4	silver	0.3 mg/m
7440-39-3	Barium from Barium carbonate	1.5 mg/m
PAC-2:	<u></u>	
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	1,500 mg/r
7439-89-6		35 mg/m3
	Phosphorus from Ammonium dihydrogenorthophosphate	3 mg/m3
	alkali fluorosilicates (NH4)	100 mg/m3
	Vanadium from Ammonium trioxovanadate	
		5.8 mg/m3
	Boron from Ammonium tetraborate tetrahydrate	21 mg/m3
	cadmium (non-pyrophoric)	0.76 mg/m
7440-50-8		33 mg/m3
	manganese	5 mg/m3
7440-02-0		50 mg/m3
	Lead from Lead Oxide	120 mg/m.
7440-32-6		330 mg/m.
7439-95-4	magnesium	200 mg/m.
7439-98-7	molybdenum	330 mg/m.
7440-31-5	tin	67 mg/m3
7440-47-3	Chromium from Chromium(III) nitrate nonahydrate	17 mg/m3
7440-23-5	Sodium from Sodium carbonate	140 mg/m.
7440-22-4	silver	170 mg/m.
7440-39-3	Barium from Barium carbonate	180 mg/m.
PAC-3:		Ÿ
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	8,900 mg/
7439-89-6		150 mg/m.
	Phosphorus from Ammonium dihydrogenorthophosphate	18 mg/m3
	alkali fluorosilicates (NH4)	630 mg/m.
	Vanadium from Ammonium trioxovanadate	35 mg/m3
	Boron from Ammonium tetraborate tetrahydrate	130 mg/m.
	cadmium (non-pyrophoric)	4.7 mg/m3
7440-50-8	**	200 mg/m.
	manganese	1,800 mg/
7440-02-0		99 mg/m3
	Lead from Lead Oxide	700 mg/m.
7440-32-6		2,000 mg/
7439-95-4	magnesium	1,200 mg/
7439-98-7	molybdenum	2,000 mg/
7440-31-5	tin	400 mg/m.
	Chromium from Chromium(III) nitrate nonahydrate	99 mg/m3
	Sodium from Sodium carbonate	870 mg/m.
7440-22-4		990 mg/m.
	Barium from Barium carbonate	1,100 mg/m
7440-39-3		

Safety Data Sheet acc. to OSHA HCS

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Product Name: 21-ELEMENT OIL STANDARD

- · Hazard pictograms Not Regulated
- · Signal word Not Regulated
- · Hazard statements Not Regulated
- · 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

   Date of preparation / last revision 10/27/2016 / 

   Abbreviations and acronyms:

   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 Transport dos

   IATA: International Maritime Code for Oscientation

   IATA: International Air Transport Association

   ACGIH: American Conference of Governmental Industrial Hygienists

   EUNCS: European Inventory of Existing Commercial Chemical Substances

   ELINCS: European Inventory of texisting Commercian Chemical Substances

   CAS: Chemical Abstracts Service (division of the American Chemical Society)

   NFPA: National Fire Protection Association (USA)

   HMIS: Hazardous Materials Identification System (USA)

   LCS0: 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
- PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

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