

Printing date 12/04/2020

Review date 12/04/2020

· Product identifie	21
-	D 1 MG/L EUROPIUM IN 2% HN03
· Article number	
• Application of th	he substance / the mixture Laboratory chemicals
· Details of the su	pplier of the safety data sheet
· Manufacturer/S	
PerkinElmer, Ind	
710 Bridgeport	
Shelton, Connect	
	S@perkinelmer.com
203-925-4600	have a second and
• Emergency telep	hone number: ithin US) 800-424-9300
	om outside US) +1 703-527-3887 (call collect)
	ithin AU) + (61) - 290372994
e Hazard(s) ide	ntification
11u2u1u(5) uu	пиранов
· Classification of	the substance or mixture
Ň	
	15 Causes skin irritation.
	15 Causes skin irritation.19 Causes serious eye irritation.
Eye Irrit. 2A H3 • Label elements	
Eye Irrit. 2A H3 · Label elements · GHS label eleme · Hazard pictogra	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07
Eye Irrit. 2A H3 · Label elements · GHS label eleme · Hazard pictogra · Signal word Wa	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning
Eye Irrit. 2A H3 • Label elements • GHS label eleme • Hazard pictogra • Signal word Wa • Hazard statemen	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning nts
Eye Irrit. 2A H3 Label elements GHS label elements Hazard pictogra Signal word Wa Hazard statement H315 Causes ski	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts in irritation.
Eye Irrit. 2A H3 Label elements GHS label elements Hazard pictogra Signal word Wa Hazard statement H315 Causes skit H319 Causes ser	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning nts in irritation. rious eye irritation.
Eye Irrit. 2A H3 Label elements GHS label elements Hazard pictogra Signal word Wa Hazard statement H315 Causes skit H319 Causes ser Precautionary statements	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning nts in irritation. rious eye irritation. tatements
Eye Irrit. 2A H3 Label elements GHS label elemats Hazard pictogra Signal word Wa Hazard statement H315 Causes skit H319 Causes ser Precautionary state P264	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning nts in irritation. rious eye irritation. tatements Wash thoroughly after handling.
Eye Irrit. 2A H3 - Label elements - GHS label elements - Hazard pictogra - Signal word Wa - Hazard statement H315 Causes skit H319 Causes ser - Precautionary stat P264 P280	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts in irritation. rious eye irritation. datements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection.
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skit H319 Causes sent • Precautionary stat P264 P280 P302+P352	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning nts in irritation. rious eye irritation. rious eye irritation. Hatements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water.
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skit H319 Causes sel • Precautionary st P264 P280 P302+P352 P321	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts in irritation. rious eye irritation. tatements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label).
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skit H319 Causes sel • Precautionary st P264 P280 P302+P352 P321	 219 Causes serious eye irritation. 219 Causes serious eye irritation. 219 The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 210 rning tts 211 rning to irritation. 212 roise eye irritation. 213 roise eye irritation. 214 roise eye irritation. 214 roise eye irritation. 215 roise eye irritation. 216 roise eye irritation. 217 roise eye irritation. 218 roise eye irritation. 219 roise eye irritation. 210 roise eye irritation. <
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skit H319 Causes sel • Precautionary st P264 P280 P302+P352 P321	19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts in irritation. rious eye irritation. tatements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label).
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skit H319 Causes self • Precautionary st P264 P280 P302+P352 P321 P305+P351+P3	 <i>Party Causes serious eye irritation.</i> <i>Party The product is classified and labeled according to the Globally Harmonized System (GHS)</i> <i>ms</i> GHS07 <i>rring</i> <i>tts</i> <i>in irritation.</i> <i>rious eye irritation.</i> <i>tatements</i> <i>Wash thoroughly after handling.</i> <i>Wear protective gloves / eye protection / face protection.</i> <i>If on skin: Wash with plenty of water.</i> <i>Specific treatment (see on this label).</i> <i>38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if preseand easy to do. Continue rinsing.</i>
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skit H319 Causes ser • Precautionary st P264 P280 P302+P352 P321 P305+P351+P3 P332+P313 P362+P364 P337+P313	 19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts n irritation. ious eye irritation. tatements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention.
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skit H319 Causes ser • Precautionary st P264 P280 P302+P352 P321 P305+P351+P3 P332+P313 P332+P313 • Classification sy	 19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts in irritation. ious eye irritation. tatements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention.
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skit H319 Causes ser • Precautionary st P264 P280 P302+P352 P321 P305+P351+P3 P332+P313 P362+P364 P337+P313	 19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts in irritation. ious eye irritation. tatements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention.
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skith H319 Causes ser • Precautionary str P264 P280 P302+P352 P321 P305+P351+P3 P332+P313 P332+P313 • Classification sy • NFPA ratings (s	 19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts in irritation. rious eye irritation. batements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if preseand easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention.
Eye Irrit. 2A H3 • Label elements • GHS label elements • Hazard pictogra • Signal word Wa • Hazard statement H315 Causes skit H319 Causes ser • Precautionary str P264 P280 P302+P352 P321 P305+P351+P3 P332+P313 P332+P313 • Classification sy • NFPA ratings (s	 19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts in irritation. rious eye irritation. batements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. stem: cale 0 - 4
Eye Irrit. 2A H3 Label elements GHS label elemats Hazard pictogra Signal word Wa Hazard statement H315 Causes ski H319 Causes ser Precautionary st P264 P280 P302+P352 P321 P305+P351+P3 P332+P313 P332+P313 Classification sy NFPA ratings (s	 19 Causes serious eye irritation. ents The product is classified and labeled according to the Globally Harmonized System (GHS) ms GHS07 rning tts in irritation. rious eye irritation. batements Wash thoroughly after handling. Wear protective gloves / eye protection / face protection. If on skin: Wash with plenty of water. Specific treatment (see on this label). 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if preseand easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention.



Printing date 12/04/2020

Review date 12/04/2020

Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

(Contd. of page 1)

• HMIS-ratings (scale 0 - 4)



· Other hazards

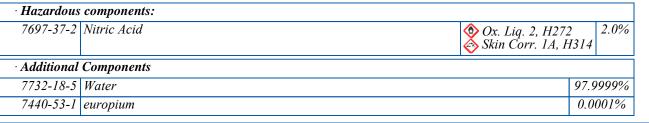
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

- · 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.



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. 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.
- · Advice for firefighters
- · Protective equipment: No special measures required.

(Contd. on page 3)

US A



Printing date 12/04/2020

Review date 12/04/2020

Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

(Contd. of page 2)

Personal precautions, protective equipment and emergency procedures Not required.	
• Environmental precautions: Dilute with plenty of water. • Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sav	udust)
• Reference to other sections	vuusi).
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
7440-53-1 europium	30 mg/m ³
• PAC-2:	
7697-37-2 Nitric Acid	24 ppm
7440-53-1 europium	330 mg/m ³
• PAC-3:	÷
7697-37-2 Nitric Acid	92 ppm
7440-53-1 europium	$2,000 \text{ mg/m}^3$

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:

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

(Contd. on page 4)

USA



Printing date 12/04/2020

Review date 12/04/2020

(Contd. of page 3)

Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

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.
- 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

General Information		
Appearance:		
Form:	Liquid	
Color:	Transparent	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	



Printing date 12/04/2020

Review date 12/04/2020

Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

		(Contd. of page
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. Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density:	Not determined.	
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:		
<i>Dynamic at 20 •C (68 •F):</i>	0.952 mPas	
Kinematic:	Not determined.	
Solvent content:		
Water:	98.0 %	
VOC content:	0.00 %	
Solids content:	0.0 %	
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)

USA



Printing date 12/04/2020

Review date 12/04/2020

Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

(Contd. of page 5)

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.

 \cdot Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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.

(Contd. on page 7)

USA



Printing date 12/04/2020

Review date 12/04/2020

(Contd. of page 6)

Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, ADR, IMDG, IATA	UN3264
UN proper shipping name	
DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)
ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O., (Nitric Acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitr
	Acid)
Transport hazard class(es)	
DOT	
\wedge	
Le la	
8	
Class	8 Corrosive substances
Label	8
ADR	
\wedge	
Class	8 (C1) Corrosive substances
Label	8
IMDG, IATA	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
A CONTRACTOR	
8	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code)	
EMS Number: Segregation groups	F-A,S-B Acids
Stowage Category	A cius A



Printing date 12/04/2020

*Review date 12/04/2020* 

### Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

	(Contd. of page
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) 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

	lth and environmental regulations/legislat	ion specific for the substance of mixture	07.00000
7732-18-5	Water		97.99999
7697-37-2	Nitric Acid	<ul> <li>Ø Ox. Liq. 2, H272</li> <li>Ø Skin Corr. 1A, H314</li> </ul>	2.0%
7440-53-1	europium		0.0001%
Sara			
Section 35.	5 (extremely hazardous substances):		
7697-37-2	Nitric Acid		
Section 31.	3 (Specific toxic chemical listings):		
7697-37-2	Nitric Acid		
TSCA (Tox	xic Substances Control Act):		
7732-18-5	Water		ACTIVE
7697-37-2	Nitric Acid		ACTIVE
7440-53-1	europium		ACTIVE
Hazardous	Air Pollutants		
None of the	e ingredients is listed.		
Proposition	n 65		
Chemicals	known to cause cancer:		
	e ingredients is listed.		



Printing date 12/04/2020

Review date 12/04/2020

#### Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

(Contd. of page 8)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

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

None of the ingredients is listed.

· National regulations:

- 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:

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)
- VOC: Volatile Organic Compounds (USA, EC
- *PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative*

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health



Printing date 12/04/2020

Review date 12/04/2020

Trade name: STD 1 MG/L EUROPIUM IN 2% HN03

(Contd. of page 9)

USA

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 Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A • * Data compared to the previous version altered.