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acc. to OSHA HCS

Printing date 01/03/2019

1 Identification

· Product identifier

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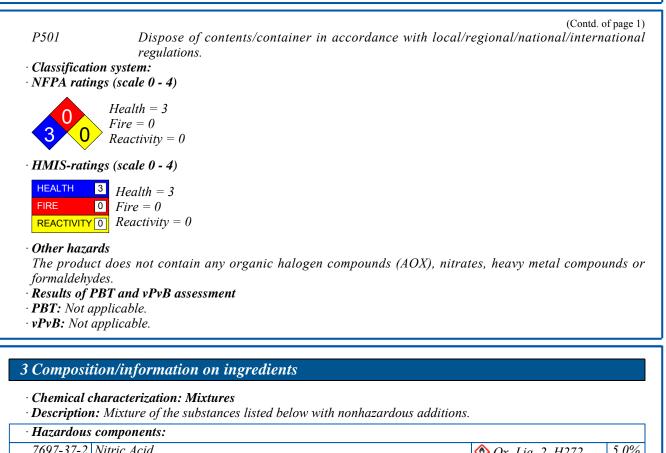
· Article num	: Initial Calibration Verification Standard ber N9300224
· Application	of the substance / the mixture Laboratory chemicals
	e supplier of the safety data sheet
• Manufactur	er/Supplier:
CustomerCa 203-925-460	ort Avenue mecticut 06484 USA reUS@perkinelmer.com
	C (within US) 800-424-9300
	C(from outside US) + 1.703-527-3887 (call collect)
	C (within AU) +(61)-290372994
2 Hazard(s)	identification
· Classificatio	n of the substance or mixture
📥 🐇 Co	prrosion
Skin Corr. 1	B H314 Causes severe skin burns and eye damage.
	H318 Causes serious eye damage.
	lements The product is classified and labeled according to the Globally Harmonized System (GHS). ograms GHS05
· Hazard-dete	rmining components of labeling:
Nitric Acid	
· Hazard state	ments
	s severe skin burns and eye damage.
· Precautiona	
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
	+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
	+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351	+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
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7697-37-2	Nitric Acid $Ox. Liq.$ Skin Cor	2, H272 5.0 r. 1A, H314
Additional	Components	
7439-95-4	magnesium � Pyr. Sol. 1, H250; Water-react. 1, H260	0.05%
7440-09-7	potassium Water-react. 1, H260 Skin Corr. 1B, H314	0.05%
7440-23-5	sodium Water-react. 1, H260 Skin Corr. 1B, H314	0.05%
7440-70-2	calcium Image: Water-react. 2, H261	0.05%
87-69-4	(+)-tartaric acid	0.03%
7429-90-5	aluminium	0.02%
7440-39-3	barium 🐼 Water-react. 2, H261	0.02%
7439-89-6	iron	0.01%
7440-36-0	antimony	0.006%
		(Contd. on page



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7440-62-2	vanadium	(Contd. of pag 0.005%
7440-48-4		0.005%
	Sens. 1, H334; Carc. 2, H351	
	i Skin Sens. 1, H317	
7440-02-0		0.004%
	🗞 Carc. 2, H351; STOT RE 1, H372	
	♦ <i>Skin Sens. 1, H317</i>	
7440-50-8	copper	0.00259
7440-66-6	zinc	0.002%
	Water-react. 2, H261	
1317-35-7	trimanganese tetraoxide	0.0015
7440-28-0	8	0.0019
/440-20-0	O Acute Tox. 2, H300; Acute Tox. 2, H330	
	STOT RE 2, H373	
7440-47-3	chromium	0.0019
7440-38-2		0.0019
/440-30-2	\bigotimes Acute Tox. 3, H301; Acute Tox. 3, H331	0.0017
	\bigcirc Carc. 1A, H350	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
7440-22-4		0.0019
7782-49-2		0.0005
//02-49-2	P Acute Tox. 3, H301; Acute Tox. 3, H331	
	\bigstar STOT RE 2, H373	
7440 42 0		0.0005
/440-45-9	cadmium (non-pyrophoric) Acute Tox. 2, H330	
	\bigstar Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT RE 1, H372	
7440-41-7	•	0.0005
/440-41-/		
	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	
7439-92-1	▼	0.0003
/439-92-1		
	Acute Tox. 3, H301 Carc. 2, H351; Repr. 1A, H360-H362	
	Acute Tox. 4, H332	
7722 10 5		04 (003
7732-18-5	w aler	94.6882

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.

 \cdot After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *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
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters

7439-89-6 iron

7440-36-0 antimony

7440-62-2 vanadium

7440-48-4 cobalt

7440-02-0 nickel

7440-50-8 copper

7440-66-6 zinc

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

-	recautions, protective equipment and emergency procedures iratory protective device.
1	ctive equipment. Keep unprotected persons away.
	ntal precautions:
Inform resp	pective authorities in case of seepage into water course or sewage system.
	plenty of water.
	nd material for containment and cleaning up:
	h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutra	lizing agent.
Dispose co	ntaminated material as waste according to item 13.
	quate ventilation.
· Reference	to other sections
	7 for information on safe handling.
	8 for information on personal protection equipment.
	13 for disposal information.
• Protective A	Action Criteria for Chemicals
· PAC-1:	
7697-37-2	Nitric Acid
7439-95-4	magnesium
7440-09-7	potassium
7440-23-5	sodium
87-69-4	(+)-tartaric acid
7440-39-3	barium

0.16 ppm 18 mg/m³ 2.3 mg/m³ 13 mg/m³ 1.6 mg/m³

 1.5 mg/m^3

 $3.2 \ mg/m^3$

 $1.5 \ mg/m^{3}$

 0.18 mg/m^3

 $4.5 \ mg/m^{3}$

 $3 mg/m^3$

6 mg/m³ (Contd. on page 5)

 $3 mg/m^3$



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1317 25 7	trimanganasa tatraovida	(Contd. of page 4.2 mg/m ³
7440-28-0	trimanganese tetraoxide	$\frac{4.2 \text{ mg/m}^3}{0.06 \text{ mg/m}^3}$
7440-28-0		1.5 mg/m ³
7440-47-3		$1.5 mg/m^3$
7440-38-2		
		0.3 mg/m^3
7782-49-2		0.6 mg/m ³
	cadmium (non-pyrophoric)	0.10 mg/m ³
7440-41-7	2	0.0023 mg/m
7439-92-1	lead	$0.15 mg/m^3$
<i>PAC-2:</i>		
	Nitric Acid	24 ppm
7439-95-4	magnesium	200 mg/m^3
7440-09-7	*	25 mg/m^3
7440-23-5		140 mg/m ³
87-69-4	(+)-tartaric acid	17 mg/m ³
7440-39-3	barium	180 mg/m ³
7439-89-6	iron	35 mg/m ³
7440-36-0	antimony	13 mg/m ³
7440-62-2	vanadium	$5.8 mg/m^3$
7440-48-4	cobalt	$2 mg/m^3$
7440-02-0	nickel	50 mg/m ³
7440-50-8	copper	33 mg/m ³
7440-66-6	zinc	21 mg/m ³
1317-35-7	trimanganese tetraoxide	$6.9 mg/m^3$
7440-28-0	thallium	3.3 mg/m ³
7440-47-3	chromium	17 mg/m ³
7440-38-2	Arsenic	17 mg/m ³
7440-22-4	silver	$\frac{170 \text{ mg/m}^3}{170 \text{ mg/m}^3}$
7782-49-2	selenium	6.6 mg/m ³
7440-43-9	cadmium (non-pyrophoric)	0.76 mg/m ³
7440-41-7		0.025 mg/m
7439-92-1	•	120 mg/m ³
PAC-3:		
	Nitric Acid	92 ppm
	magnesium	1,200 mg/m
7440-09-7		1,200 mg/m ³
7440-23-5	1	870 mg/m ³
	(+)-tartaric acid	100 mg/m ³
7440-39-3		1,100 mg/m
7439-89-6		1,100 mg/m 150 mg/m ³
/439-09-0		(Contd. on page



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		(Contd. of page 5)
7440-36-0	antimony	80 mg/m^3
7440-62-2	vanadium	35 mg/m ³
7440-48-4	cobalt	20 mg/m ³
7440-02-0	nickel	99 mg/m ³
7440-50-8	copper	200 mg/m ³
7440-66-6	zinc	120 mg/m ³
1317-35-7	trimanganese tetraoxide	41 mg/m ³
7440-28-0	thallium	20 mg/m ³
7440-47-3	chromium	99 mg/m ³
7440-38-2	Arsenic	100 mg/m ³
7440-22-4	silver	990 mg/m ³
7782-49-2	selenium	40 mg/m ³
7440-43-9	cadmium (non-pyrophoric)	4.7 mg/m ³
7440-41-7	beryllium	0.1 mg/m^3
7439-92-1	lead	700 mg/m ³

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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
- TLV Short-term value: 10 mg/m³, 4 ppm
 - Long-term value: 5.2 mg/m³, 2 ppm

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· pH-value:

· Change in condition

Melting point/Melting range: Boiling point/Boiling range:

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• Additional information: The l	ists that were valid during the creation were used as basis	(Contd. of page 6) S.
· Exposure controls		
· Personal protective equipmen	<i>t</i> :	
• General protective and hygien		
Keep away from foodstuffs, be		
Immediately remove all soiled		
Wash hands before breaks and Avoid contact with the eyes.	t at the end of work.	
Avoid contact with the eyes an	d skin	
• Breathing equipment:	u shin.	
In case of brief exposure or lo	w pollution use respiratory filter device. In case of intens hat is independent of circulating air.	ive or longer exposure use
Protective gloves		
Selection of the glove material • Material of gloves The selection of the suitable given varies from manufacturer to m of the glove material can not b • Penetration time of glove material	npermeable and resistant to the product/ the substance/ th on consideration of the penetration times, rates of diffusi- loves does not only depend on the material, but also on fu- nanufacturer. As the product is a preparation of several re calculated in advance and has therefore to be checked p erial has to be found out by the manufacturer of the protec	ion and the degradation urther marks of quality and substances, the resistance prior to the application.
Tightly sealed gogg	eles or safety glasses	
9 Physical and chemical pr	roperties	
· Information on basic physical	l and chemical properties	
· General Information		
· Appearance:		
Form:	Liquid	
Color:	Transparent Odowlass	
• Odor: • Odor threshold:	Odorless Not determined.	
	1,07 werer miniew.	

Not determined.

0 °C (32 °F) 100 °C (212 °F)



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		(Contd. of page 7
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 at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	94.7 %	
VOC content:	0.00 %	
Solids content:	0.2 %	
Other information	No further relevant information available.	

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

• Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

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

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

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

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· Behavior in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- \cdot Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

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

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.S. (nit) acid)
	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (NITRIC ACID)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid
Transport hazard class(es)	
CORROSIVE 0	
Class	8 Corrosive substances
Label	8



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	(Contd. of page
ADR	
Class	8 (C1) Corrosive substances
Label	8
IMDG, IATA	
Class Label	8 Corrosive substances 8
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	8
EMS Number: Segregation groups	F-A,S-B Acids
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	Пот аррисаоне.
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR Excepted quantities (EQ)	Code: E
IMDG	
Limited quantities (LQ)	5
Excepted quantities (EQ)	Code: E
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (NITRIC ACID), 8, III

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	n specific for the substance or mixture	
7732-18-5 Water		94.68829
7697-37-2 Nitric Acid	Ox. Liq. 2, H272 Skin Corr. 1A, H314	5.0%
7440-09-7 potassium	Water-react. 1, H260 Skin Corr. 1B, H314	0.05%
·Sara		
· Section 355 (extremely hazardous substances):		
7697-37-2 Nitric Acid		
Section 313 (Specific toxic chemical listings):		
7697-37-2 Nitric Acid		
7429-90-5 aluminium		
7440-39-3 barium		
7440-36-0 antimony		
7440-62-2 vanadium		
7440-48-4 cobalt		
7440-02-0 nickel		
7440-50-8 copper		
7440-66-6 zinc		
1317-35-7 trimanganese tetraoxide		
7440-28-0 thallium		
7440-47-3 chromium		
7440-38-2 Arsenic		
7440-22-4 silver		
7782-49-2 selenium		
7440-43-9 cadmium (non-pyrophoric)		
7440-41-7 beryllium		
7439-92-1 lead		
TSCA (Toxic Substances Control Act):		
All ingredients are listed.		
7697-37-2 Nitric Acid		
7439-95-4 magnesium		
7440-09-7 potassium		
7440-23-5 sodium		
7440-70-2 calcium		
87-69-4 (+)-tartaric acid		
7429-90-5 aluminium		
7440-39-3 barium		



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		(Contd. of page 1
7440-36-0	-	
7440-62-2		
7440-48-4		
7440-02-0	nickel	
7440-50-8	copper	
7440-66-6	zinc	
1317-35-7	trimanganese tetraoxide	
7440-28-0	thallium	
7440-47-3		
7440-38-2	Arsenic	
7440-22-4	silver	
7782-49-2	selenium	
7440-43-9	cadmium (non-pyrophoric)	
7440-41-7	beryllium	
7439-92-1	lead	
7732-18-5	Water	
Proposition	1 65	
Chemicals	known to cause cancer:	
7440-48-4	cobalt	
7440-02-0	nickel	
7440-38-2	Arsenic	
7440-43-9	cadmium (non-pyrophoric)	
7440-41-7	beryllium	
7439-92-1	lead	
Chemicals	known to cause reproductive toxicity for females:	
7439-92-1		
Chemicals	known to cause reproductive toxicity for males:	
	cadmium (non-pyrophoric)	
7439-92-1		
Chemicals	known to cause developmental toxicity:	
	cadmium (non-pyrophoric)	
7439-92-1		
-	nity categories	
	ronmental Protection Agency)	
7440-39-3		D, CBD(inh), NL(oral)
7440-50-8	**	D
7440-66-6		D, I, II
	trimanganese tetraoxide	D
7440-47-3	chromium	D



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		(0	Contd. of page 13	
7440-38-2	Arsenic	A	A	
7440-22-4	silver	D	D	
7782-49-2	selenium	D	D	
7440-43-9	cadmium (non-pyrophoric)	B1	B1	
7440-41-7	beryllium	B1, K/L(inh	B1, K/L(inh), CBD(oral)	
7439-92-1	lead	B2		
· TLV (Thre	shold Limit Value established by ACGIH)			
7429-90-5	aluminium		A4	
7440-39-3	barium		A4	
7440-48-4	cobalt		A3	
7440-02-0	nickel		A5	
7440-47-3	chromium		A4	
7440-38-2	Arsenic		Al	
7440-43-9	cadmium (non-pyrophoric)		A2	
7440-41-7	beryllium		Al	
7439-92-1	lead		A3	
· NIOSH-Ca	a (National Institute for Occupational Safety and Health)			
7440-02-0	nickel			
7440-38-2	Arsenic			
7440-43-9	cadmium (non-pyrophoric)			
7440-41-7	beryllium			

· National regulations:

· Information about limitation of use:

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

• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

16 Other information

Disclaimer

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

• **Department issuing SDS:** Environmental, Health and Safety

· Contact:

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

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(Contd. of page 14) • 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 Ox. Liq. 2: Oxidizing liquids - Category 2 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 • * Data compared to the previous version altered.