

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 17-Feb-2023 Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Code(s) VHG-THGN-100

Product Name Mercury Standard: Hg @ 10000 µg/mL in 5% HNO3

Form Not applicable

Unique Formula Identifier (UFI) RW7E-J062-200C-QCWT

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Laboratory use

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

### Supplier

LGC Limited
Queens Road
Teddington
Middlesex TW11 0LY
UNITED KINGDOM
:+44 (0) 20 8943 7000
Fax :+44 (0) 20 8943 2767
eMail : gb@lgcstandards.com

Web: www.lgcstandards.com

For further information, please contact

E-mail address sds-request@lgcgroup.com

1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

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Emergency Telephone - §	45 - (EC)1272/2008	
Europe	112	
Austria	No information available	
Bulgaria		
Croatia		
Cyprus		
Czech Republic		
Denmark		
France		
Hungary		
Ireland		
Italy		
Lithuania		
Luxembourg		
Netherlands		
Norway		
Portugal		
Romania		
Slovakia		
Slovenia		
Spain		
Sweden		
Switzerland		

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Regulation (EC) No 1272/2000	
Skin corrosion/irritation	Category 1 Sub-category A - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Reproductive toxicity	Category 1B - (H360D)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 3 - (H412)
Corrosive to metals	Category 1 - (H290)

## 2.2. Label elements

**Contains Mercury** 



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### Signal word Danger

### **Hazard statements**

H314 - Causes severe skin burns and eye damage

H360D - May damage the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

H290 - May be corrosive to metals

### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

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 or doctor

P234 - Keep only in original container

P406 - Store in corrosive resistant stainless steel container with a resistant inner liner

### 2.3. Other hazards

Harmful to aquatic life.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

Endoornic Bioraptor information	The product door not contain any thrown or edopo	otoa oriacomino aioraptoro.
Chemical name	EU - REACH (1907/2006) - Article 59(1)	EU - REACH (1907/2006) - Endocrine
	- Candidate List of Substances of Very	Disruptor Assessment List of
	High Concern (SVHC) for Authorisation	Substances
Nitric Acid	-	<u>-</u>

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

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Not applicable

3.2 Mixtures

**Chemical nature** 

aqueous solution.

Chemical name	Weight-%	REACH registration number	,	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Nitric Acid 7697-37-2	5 - <10	-	231-714-2		Ox. Liq. 2 ::     C>=99%     Ox. Liq. 3 ::     C≥65% Skin Corr. 1A ::     C>=20% Skin Corr. 1B ::     5%<=C<20%		
Mercury 7439-97-6	1 - <3	-	231-106-7	Acute Tox. 2 (H330) Repr. 1B (H360D) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			

## Full text of H- and EUH-phrases: see section 16

## **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
Nitric Acid	No data	No data available	No data available	2.65	No data available
7697-37-2	available				

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

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General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention.

**Eve contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

while rinsing. Do not rub affected area. Get immediate medical advice/attention.

Wash off immediately with soap and plenty of water while removing all contaminated clothes Skin contact

and shoes. Get immediate medical advice/attention.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Get immediate medical advice/attention.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

> Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use

barrier to give mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible

perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may

occur with moist rales, frothy sputum, and high pulse pressure.

**SECTION 5: Firefighting measures** 

5.1. Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the **Suitable Extinguishing Media** 

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Do not scatter spilled material with high pressure water streams. Unsuitable extinguishing media

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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating gases and vapours.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe

areas. Keep people away from and upwind of spill/leak.

Refer to protective measures listed in Sections 7 and 8. Other information

Use personal protection recommended in Section 8. For emergency responders

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

### 6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

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Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes.

**General hygiene considerations** 

Regular cleaning of equipment, work area and clothing is recommended. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

#### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

## **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Nitric Acid	-	STEL 1 ppm	STEL: 1 ppm	STEL: 1 ppm	STEL: 1 ppm
7697-37-2		STEL 2.6 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>
Mercury	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
7439-97-6		STEL 0.08 mg/m <sup>3</sup>	*	TWA: 0.02 mg/m <sup>3</sup>	_
		H*			
		Skin sensitizer			
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Nitric Acid	STEL: 1 ppm	TWA: 1 mg/m <sup>3</sup>	STEL: 1 ppm	STEL: 1 ppm	TWA: 0.5 ppm
7697-37-2	STEL: 2.6 mg/m <sup>3</sup>	Ceiling: 2.5 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>	TWA: 1.3 mg/m <sup>3</sup>
					STEL: 1 ppm
					STEL: 2.6 mg/m <sup>3</sup>
Mercury	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
7439-97-6		Ceiling: 0.15 mg/m <sup>3</sup>	H*		iho*
		*			

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Chemical name		France	Germany	Germany MAK		eece	Hungary
Nitric Acid		EL: 1 ppm	TWA: 1 ppm	-		.: 1 ppm	STEL: 2.6 mg/m <sup>3</sup>
7697-37-2		L: 2.6 mg/m <sup>3</sup>	TWA: 2.6 mg/m <sup>3</sup>			2.6 mg/m <sup>3</sup>	
Mercury	TWA	: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0	.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
7439-97-6		*	H*	Peak: 0.16 mg/m <sup>3</sup>			*
				*			
				skin sensitizer			
Chemical name		Ireland	Italy	Italy REL		atvia	Lithuania
Nitric Acid	ST	EL: 1 ppm	STEL: 1 ppm	TWA: 2 ppm		0.78 ppm	STEL: 1 ppm
7697-37-2	STE	L: 2.6 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>	TWA: 5.2 mg/m <sup>3</sup>	TWA:	2 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>
		_		STEL: 4 ppm	STEL	.: 1 ppm	
				STEL: 10.3 mg/m <sup>3</sup>	STEL: 2	2.6 mg/m <sup>3</sup>	
Mercury	TWA	: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0	.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
7439-97-6	STEL	.: 0.06 mg/m <sup>3</sup>	pelle*	*		J	· ·
Chemical name	Lu	xembourg	Malta	Netherlands		rway	Poland
Nitric Acid	ST	EL: 1 ppm	STEL: 1 ppm	STEL: 1.3 mg/m <sup>3</sup>	TWA	: 2 ppm	STEL: 2.6 mg/m <sup>3</sup>
7697-37-2	STE	L: 2.6 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>			5 mg/m <sup>3</sup>	TWA: 1.4 mg/m <sup>3</sup>
					STEL	.: 4 ppm	
					STEL:	10 mg/m <sup>3</sup>	
Mercury	TWA	: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0	.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
7439-97-6		_			Biologica	l limit value:	*
					30 µ	g Hg/g	
					Cre	atinine	
					STEL: 0	.06 mg/m <sup>3</sup>	
Chemical name		Portugal	Romania	Slovakia		venia	Spain
Nitric Acid		VA: 2 ppm	STEL: 1 ppm	Ceiling: 2.6 mg/m <sup>3</sup>		: 1 ppm	STEL: 1 ppm
7697-37-2		EL: 1 ppm	STEL: 2.6 mg/m <sup>3</sup>			2.6 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>
	STE	L: 2.6 mg/m <sup>3</sup>				.: 1 ppm	
					STEL: 2	2.6 mg/m <sup>3</sup>	
Mercury	TWA	: 0.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>		.02 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup>
7439-97-6		P*		*	STEL: S	TEL mg/m <sup>3</sup>	
				Sensitizer		*	
Chemical name		_	weden	Switzerland			ted Kingdom
Nitric Acid			: 0.5 ppm	TWA: 2 ppm			ΓEL: 1 ppm
7697-37-2			1.3 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	•	STE	L: 2.6 mg/m <sup>3</sup>
			KGV: 1 ppm	STEL: 2 ppm			-
			(GV: 2.6 mg/m <sup>3</sup>	STEL: 5 mg/m <sup>2</sup>	3		
Mercury		NGV: (	).02 mg/m <sup>3</sup>	TWA: 0.005 ppr	n	TWA	A: 0.02 mg/m <sup>3</sup>
7439-97-6			-	TWA: 0.05 mg/r	n <sup>3</sup>		-
				STEL: 0.04 ppr	n		
				STEL: 0.4 mg/n	1 <sup>3</sup>		
				H*			

**Biological occupational exposure limits** 

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Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Mercury		25 µg/g Creatinine	100 µg/L - urine	10 μg/L - blo	
7439-97-6		urine - after end of			
		vork day, at the end	, , , , , , , , , , , , , , , , , , , ,	critical	Mercury
		of a work week/end		30 μg/g Creatir	nine - discretionary)
		of the shift)		urine (Mercur	
				single sample	e or   (urine - Mercury
				urine collected	over discretionary)
				24 hours	
Chemical name	Denmark	Finland	France	Germany	
Mercury	-	140 nmol/L (urine -	0.015 mg/L - bloo		
7439-97-6		Mercury in the	(Total inorganic	(urine - Mercu	
		morning after a	Mercury) - end of		
		working day at the end of a working	shift at end of workweek	25 µg/g Creating BAT (not fixed)	
		week or exposure	0.050 mg/g	DAT (HOLTIXEO)	unite
		period)	creatinine - urine		
		50 nmol/L (blood -	(Total inorganic		
		/lercury, inorganic at	Mercury) - prior to	,	
		he end of a working	shift		
		week; time of day			
		does not matter)			
Chemical name	Hungary	Irelan		Italy	Italy REL
Mercury	0.030 mg/g Creatinir			-	20 μg/g Creatinine - urine
7439-97-6	(urine - Mercury no				(Total inorganic mercury)
	critical)	Mercur	v )		
	0.047 1/	Wierean	'		- prior to shift
	0.017 µmol/mmol		, ,		- prior to smit
	Creatinine (urine -				- prior to smit
Chemical name	Creatinine (urine - Mercury not critical	)		Romania	·
Chemical name  Mercury	Creatinine (urine - Mercury not critical Latvia	) Luxembo		Romania	Slovakia
Mercury	Creatinine (urine - Mercury not critical	) Luxembo		Romania -	Slovakia 37.5 μg/L (urine - Mercury
	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Merci	) Luxembo		Romania -	Slovakia 37.5 µg/L (urine - Mercury not critical)
Mercury	Creatinine (urine - Mercury not critical Latvia	) Luxembo		Romania -	Slovakia 37.5 μg/L (urine - Mercury
Mercury	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Merci	) Luxemboury) -		Romania -	Slovakia 37.5 µg/L (urine - Mercury not critical) 15 mg/L (blood - Mercury after all work shifts)
Mercury 7439-97-6 Chemical name	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Mercury) - 35 µg/g Creatinine - u (Mercury) - 50 µg/L - urine (Mercury) -	Luxemboury) - rine ry) -	ourg S	- witzerland	Slovakia 37.5 µg/L (urine - Mercury not critical) 15 mg/L (blood - Mercury after all work shifts) United Kingdom
Mercury 7439-97-6  Chemical name Mercury	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Mercury) - 35 µg/g Creatinine - u (Mercury) - 50 µg/L - urine (Mercury) Slovenia 0.25 µg/g Creatinine	Luxemboury) - rine ry) - Spair s - 30 µg/g Creatini	ourg  n Sine (urine - 25 µg/g	- witzerland creatinine (urine -	Slovakia 37.5 µg/L (urine - Mercury not critical) 15 mg/L (blood - Mercury after all work shifts)  United Kingdom 20 µmol/mol creatinine -
Mercury 7439-97-6 Chemical name	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Mercury) - 35 µg/g Creatinine - u (Mercury) - 50 µg/L - urine (Mercury) Slovenia 0.25 µg/g Creatinine urine (Mercury) - no	Luxemboury) -  rine  ry) -  Spair  30 µg/g Creating total inorganic	ourg  ine (urine - 25 µg/g mercury Mercury	- witzerland creatinine (urine - inorganic before	Slovakia 37.5 µg/L (urine - Mercury not critical) 15 mg/L (blood - Mercury after all work shifts)  United Kingdom 20 µmol/mol creatinine -
Mercury 7439-97-6  Chemical name Mercury	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Mercury) - 35 µg/g Creatinine - u (Mercury) - 50 µg/L - urine (Mercury) Slovenia 0.25 µg/g Creatinine urine (Mercury) - no relevant	Luxemboury) -  rine  ry) -  Spair  - 30 µg/g Creating total inorganic pre-shi	ine (urine - 25 μg/g mercury ft) Mercury sub	- witzerland creatinine (urine - inorganic before sequent shift)	Slovakia 37.5 µg/L (urine - Mercury not critical) 15 mg/L (blood - Mercury after all work shifts)  United Kingdom 20 µmol/mol creatinine -
Mercury 7439-97-6  Chemical name Mercury	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Mercury) - 35 µg/g Creatinine - u (Mercury) - 50 µg/L - urine (Mercury) Slovenia 0.25 µg/g Creatinine urine (Mercury) - no relevant 30 µg/L urine - urine	Luxemboury) -  rine  ry) -  Spair  30 µg/g Creatinitotal inorganicopre-shi e 10 µg/L (block	ine (urine - 25 μg/g mercury ft) sub 15 μg/	- witzerland creatinine (urine - inorganic before sequent shift) _ (whole blood -	Slovakia 37.5 µg/L (urine - Mercury not critical) 15 mg/L (blood - Mercury after all work shifts)  United Kingdom 20 µmol/mol creatinine - urine (Mercury) - random
Mercury 7439-97-6  Chemical name Mercury	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Mercury) - 35 µg/g Creatinine - u (Mercury) - 50 µg/L - urine (Mercury) Slovenia 0.25 µg/g Creatinine urine (Mercury) - no relevant	Luxemboury)  rine  ry) -  Spair  30 µg/g Creating total inorganic pre-shi e 10 µg/L (block inorganic merce)	ine (urine - 25 µg/g imercury ft) od - total ury end of Mercury	- witzerland creatinine (urine - inorganic before sequent shift) _ (whole blood - inorganic end of	Slovakia 37.5 µg/L (urine - Mercury not critical) 15 mg/L (blood - Mercury after all work shifts)  United Kingdom 20 µmol/mol creatinine - urine (Mercury) - random
Mercury 7439-97-6  Chemical name Mercury	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Mercury) - 35 µg/g Creatinine - u (Mercury) - 50 µg/L - urine (Mercury) Slovenia 0.25 µg/g Creatinine urine (Mercury) - no relevant 30 µg/L urine - urine	Luxemboury) -  rine  ry) -  Spair  30 µg/g Creatinitotal inorganicopre-shi e 10 µg/L (block	ine (urine - 25 μg/g Mercury sub d - total ury end of ek)  Mercury shift, a shift,	- witzerland creatinine (urine - inorganic before sequent shift) _ (whole blood - inorganic end of nd after several	Slovakia 37.5 µg/L (urine - Mercury not critical) 15 mg/L (blood - Mercury after all work shifts)  United Kingdom 20 µmol/mol creatinine - urine (Mercury) - random
Mercury 7439-97-6  Chemical name Mercury	Creatinine (urine - Mercury not critical Latvia 15 µg/L - blood (Mercury) - 35 µg/g Creatinine - u (Mercury) - 50 µg/L - urine (Mercury) Slovenia 0.25 µg/g Creatinine urine (Mercury) - no relevant 30 µg/L urine - urine	Luxemboury)  rine  ry) -  Spair  30 µg/g Creating total inorganic pre-shi e 10 µg/L (block inorganic merce)	ine (urine - 25 μg/g Mercury sub od - total ury end of ek)  Mercury shift, a shifts	- witzerland creatinine (urine - inorganic before sequent shift) _ (whole blood - inorganic end of	Slovakia 37.5 µg/L (urine - Mercury not critical) 15 mg/L (blood - Mercury after all work shifts)  United Kingdom 20 µmol/mol creatinine - urine (Mercury) - random

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VHG-THGN-100 - Mercury Standard: Hg @ 10000 µg/mL in 5% HNO3

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

No information available. No information available.

(PNEC)

8.2. Exposure controls

Personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield. Avoid contact with eyes. Wear safety

glasses with side shields (or goggles).

Hand protection Wear protective Neoprene™ gloves. Wear suitable gloves. Impervious gloves. The

protective gloves to be used must comply with the specifications of EC Directive

89/686/EEC and the related standard EN374.

Skin and body protection Long sleeved clothing. Chemical resistant apron. Wear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Regular cleaning of equipment, work area and clothing is recommended. Remove and wash

contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear

suitable gloves and eye/face protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquidAppearanceLiquidColourcolourlessOdourOdourless.

Odour threshold No information available

Property Values Remarks • Method

Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known Flammability No data available None known Flammability Limit in Air None known

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Upper flammability or explosive No data available Lower flammability or explosive No data available limits Flash point No data available None known **Autoignition temperature** No data available None known None known **Decomposition temperature** No data available None known No information available pH (as aqueous solution) No data available No data available Kinematic viscosity None known Dynamic viscosity No data available None known Water solubility No data available None known Solubility(ies) No data available None known No data available **Partition coefficient** None known No data available Vapour pressure None known Relative density No data available None known No data available **Bulk density** No data available **Liquid Density** No data available None known Relative vapour density **Particle characteristics** Particle Size No information available No information available **Particle Size Distribution** 

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

## SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

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**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid** Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

**Incompatible materials** Oxidising agent. Acids. Bases.

Hazardous decomposition products None known based on information supplied.

# SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye damage.

(based on components). Corrosive to the eyes and may cause severe damage including

blindness. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Numerical measures of toxicity

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### **Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist) 5.0100 mg/l ATEmix (inhalation-vapour) 44.20 mg/l

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Nitric Acid			= 2500 ppm (Rat) 1 h
			ATE (vapours) = 2.65 mg/L

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes severe skin burns and eye

damage.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage. Causes

burns.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union	
Mercury	Repr. 1B	

**STOT - single exposure** No information available.

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**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Mercury	-	LC50: =0.16mg/L (96h,	-	-
		Cyprinus carpio)		
		LC50: =0.18mg/L (96h,		
		Cyprinus carpio)		
		LC50: =0.5mg/L (96h,		
		Cyprinus carpio)		
		LC50: =0.9mg/L (96h,		
		Orvzias latipes)		

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information** 

Component information				
Chemical name	Partition coefficient			
Nitric Acid	-2.3			

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12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Nitric Acid	The substance is not PBT / vPvB PBT assessment does
	not apply

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# **SECTION 14: Transport information**

IATA

14.1 UN number or ID number UN2031

14.2 UN proper shipping name Nitric acid mixture

14.3 Transport hazard class(es)

14.4 Packing group

**Description** UN2031, Nitric acid mixture, 8, II

14.5 Environmental hazards

14.6 Special precautions for user

Special Provisions None ERG Code 8L

IMDG

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### VHG-THGN-100 - Mercury Standard: Hg @ 10000 μg/mL in 5% HNO3

14.1 UN number or ID number UN2031

14.2 UN proper shipping name Nitric acid mixture

14.3 Transport hazard class(es) 8
14.4 Packing group |

**Description** UN2031, Nitric acid mixture, 8, II, Marine pollutant

14.5 Marine pollutant P
Environmental hazards Yes

14.6 Special precautions for user

Special Provisions None

**EmS-No** F-A, S-B No information available

**14.7 Maritime transport in bulk** No information available according to IMO instruments

RID

14.1 UN number or ID number UN2031

**14.2 UN proper shipping name** Nitric acid mixture

14.3 Transport hazard class(es) 8
14.4 Packing group | |

**Description** UN2031, Nitric acid mixture, 8, II

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions None Classification code C1

<u>ADR</u>

**14.1 UN number or ID number** UN2031

**14.2 UN proper shipping name** Nitric acid mixture

**14.3 Transport hazard class(es)** 8 **14.4 Packing group** 

**Description** UN2031, Nitric acid mixture, 8, II, (E)

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special ProvisionsNoneClassification codeC1Tunnel restriction code(E)

# **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### National regulations

#### France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Mercury	RG 2	-

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7439-97-6

Water hazard class (WGK) obviously hazardous to water (WGK 2)

#### **Netherlands**

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Carcinogens	Reproductive Toxins
Mercury	-	-	Development Category 1B

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended, Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

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## DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Product contains: Restricted explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 5 (1) and (3)

Chemical name	RESTRICTED EXPLOSIVES PRECURSORS - ANNEX I	REPORTABLE EXPLOSIVES PRECURSORS - ANNEX II
Nitric Acid - 7697-37-2	3 %w/w	-

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Nitric Acid - 7697-37-2	75.	
Mercury - 7439-97-6	18[a].	
	30.	

### **Persistent Organic Pollutants**

Not applicable

## **Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
Mercury - 7439-97-6	V

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### EU - Water Framework Directive (2000/60/EC)

==		
Chemical name	EU - Water Framework Directive (2000/60/EC)	
Mercury - 7439-97-6	Priority hazardous substance	

# EU - Environmental Quality Standards (2008/105/EC)

Chemical name		EU - Environmental Quality Standards (2008/105/EC)
	Mercury - 7439-97-6	Priority hazardous substance

### **International Inventories**

**TSCA** Complies

**DSL/NDSL** Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status **ENCS** Contact supplier for inventory compliance status **IECSC** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **KECL** 

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PICCS Contact supplier for inventory compliance status
AllC Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment is not required for this substance

### **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H272 - May intensify fire; oxidiser

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H330 - Fatal if inhaled

H331 - Toxic if inhaled

H360D - May damage the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

### Legend

SVHC: Substances of Very High Concern for Authorisation:

### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method

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Acute inhalation toxicity - Vapour Calculation method Calculation method Acute inhalation toxicity - dust/mist Skin corrosion/irritation On basis of test data Serious eye damage/eye irritation On basis of test data Respiratory sensitisation Calculation method Skin sensitisation Calculation method Mutagenicity Calculation method Carcinogenicity Calculation method STOT - single exposure Calculation method STOT - repeated exposure Calculation method Acute aquatic toxicity Calculation method Chronic aquatic toxicity Calculation method Aspiration hazard Calculation method Ozone Calculation method Corrosive to metals On basis of test data

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise

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when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet** 

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