

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

Revision date 08-Jun-2022

Revision Number 1

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

1.1. Product identifier	
Product Code(s)	VHG-PYN-100
Product Name	Yttrium Standard: Y @ 1000 μg/mL in 5% HNO3
Unique Formula Identifier (UFI)	DY27-W045-V00R-J4XA
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 sa	fety data sheet
<u>Supplier</u>	
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	<u>.</u>
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
Emergency Telephone - §45 - (EC)	12/2/2008

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	No information available



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Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	(+352) 8002 5500 Free telephone number with a 24/7 access in French, Dutch and English.
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	
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Corrosive to metals	Category 1 - (H290)

#### 2.2. Label elements



Signal word Warning

Hazard statements H315 - Causes skin irritation H319 - Causes serious eye irritation



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H290 - May be corrosive to metals EUH210 - Safety data sheet available on request

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves and eye/face protection

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P337 + P313 - If eye irritation persists: Get medical advice/attention

- P390 Absorb spillage to prevent material damage
- P201 Obtain special instructions before use
- P234 Keep only in original container

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

#### 2.3. Other hazards

No information available.

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

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	-	-
Yttrium oxide	-	-

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

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

#### **Chemical nature**

aqueous solution.

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Nitric Acid 7697-37-2	3 - <5	-	231-714-2	Ox. Liq. 2 (H272) Acute Tox. 3 (H331) Skin Corr. 1A (H314)	Ox. Liq. 2 :: C>=99% Ox. Liq. 3 :: C≥65% Skin Corr. 1A ::		



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					C>=20% Skin Corr. 1B :: 5%<=C<20%	
Yttrium oxide 1314-36-9	0.1 - 1	-	215-233-5	-		

#### 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	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
	mg/kg	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

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye 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 medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
4.0 Martine antest assessment and	offects both couts and delayed

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



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Symptoms	May cause redness and tearing of the eyes. Burning sensation.
4.3. Indication of any immediate m	edical attention and special treatment needed

**Note to doctors** Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
5.2. Special hazards arising from the	e substance or mixture		
Specific hazards arising from the chemical	No information available.		
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.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so.
6.3. Methods and material for conta	inment 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.



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Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
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. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.
General hygiene considerations	Regular cleaning of equipment, work area and clothing is recommended. 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, inc	luding 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>
Yttrium oxide	-	-	TWA: 1 mg/m <sup>3</sup>	-	-
1314-36-9			-		
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland



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Nitric Acid		EL: 1 ppm	TWA: 1 mg/m <sup>3</sup>	STEL: 1 ppm		.: 1 ppm	TWA: 0.5 ppm
7697-37-2	STE	L: 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>
Yttrium oxide		-	-	TWA: 1 mg/m <sup>3</sup>		-	TWA: 1 mg/m <sup>3</sup>
1314-36-9							
Chemical name		France	Germany	Germany MAK	Gr	eece	Hungary
Nitric Acid	ST	EL: 1 ppm	TWA: 1 ppm	-	STEL	.: 1 ppm	STEL: 2.6 mg/m <sup>3</sup>
7697-37-2	STE	L: 2.6 mg/m <sup>3</sup>	TWA: 2.6 mg/m <sup>3</sup>		STEL: 1	2.6 mg/m <sup>3</sup>	
Yttrium oxide		-	-	-	TWA:	5 mg/m³	-
1314-36-9						-	
Chemical name		Ireland	Italy	Italy REL		atvia	Lithuania
Nitric Acid	ST	EL: 1 ppm	STEL: 1 ppm	TWA: 2 ppm	TWA:	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>		2 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>
				STEL: 4 ppm		.: 1 ppm	
				STEL: 10.3 mg/m <sup>3</sup>	STEL: :	2.6 mg/m <sup>3</sup>	
Yttrium oxide		-	-	TWA: 1 mg/m <sup>3</sup>		-	TWA: 2 mg/m <sup>3</sup>
1314-36-9				-			
Chemical name	Lu	xembourg	Malta	Netherlands	No	orway	Poland
Nitric Acid		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>
						.: 4 ppm	
					STEL:	10 mg/m <sup>3</sup>	
Yttrium oxide		-	-	-		-	TWA: 1 mg/m <sup>3</sup>
1314-36-9							
Chemical name		Portugal	Romania	Slovakia		ovenia	Spain
Nitric Acid		VA: 2 ppm	-	Ceiling: 2.6 mg/m <sup>3</sup>		: 1 ppm	STEL: 1 ppm
7697-37-2		EL: 1 ppm				2.6 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>
	STE	L: 2.6 mg/m <sup>3</sup>				STEL ppm	
					STEL: S	TEL mg/m <sup>3</sup>	
Yttrium oxide	TW	A: 1 mg/m <sup>3</sup>	-	-		-	TWA: 1 mg/m <sup>3</sup>
1314-36-9							
Chemical name			veden	Switzerland			ted Kingdom
		0.5 ppm	TWA: 2 ppm			FEL: 1 ppm	
			1.3 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	ł	STE	L: 2.6 mg/m <sup>3</sup>
			KGV: 1 ppm	STEL: 2 ppm			
		Bindande K	GV: 2.6 mg/m <sup>3</sup>	STEL: 5 mg/m <sup>3</sup>	3		

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL)No information available.Predicted No Effect ConcentrationNo information available.(PNEC)No



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#### 8.2. Exposure controls

Personal protective equipment

Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).	
Hand protection	Wear suitable gloves. Impervious gloves. Wear protective nitrile rubber 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. Wear suitable protective clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Regular cleaning of equipment, work area and clothing is recommended. 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 state	Liquid			
Appearance	Liquid			
Colour	colourless			
Odour	Odourless.			
Odour threshold	No information available			
Property_	<u>Values</u>	Remarks • Method		
Melting point / freezing point	No data available	None known		
Initial boiling point and boiling	No data available	None known		
range				
Flammability	No data available	None known		
Flammability Limit in Air		None known		
Upper flammability or explosive	No data available			
limits				
Lower flammability or explosive	No data available			
limits				
Flash point	No data available	None known		
Autoignition temperature	No data available	None known		



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Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

#### 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

**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



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Incompatible materials Oxidising agent. Strong acids. Strong 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.			
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.			
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).			
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.			
Symptoms related to the physical, chemical and toxicological characteristics				
Symptoms Redness. May cause redness and tearing of the eyes.				
Numerical measures of toxicity				
Acute toxicity				
The following values are calculated based on chapter 3.1 of the GHS document				

ATEmix (inhalation-vapour) 58.90 mg/l

#### **Component Information**

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Γ	Nitric Acid			= 2500 ppm (Rat)1 h
				ATE (vapours) = 2.65 mg/L
Γ	Yttrium oxide	> 5g/kg (Rat)		> 5.09 mg/L (Rat) 4h

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



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Skin corrosion/irritation	Classification based on data available for ingredients. Causes skin irritation.			
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.			
Respiratory or skin sensitisation	No information available.			
Germ cell mutagenicity	No information available.			
Carcinogenicity	No information available.			
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	No information available.			
11.2. Information on other hazards				
11.2.1. Endocrine disrupting prop	erties			
Endocrine disrupting properties	No information available.			
11.2.2. Other information				
Other adverse effects	No information available.			
SECTION 12: Ecological information				
<u>12.1. Toxicity</u>				
Ecotoxicity	The environmental impact of this product has not been fully investigated.			

#### 12.2. Persistence and degradability



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Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** 

There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
Nitric Acid	-2.3

#### 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
Yttrium oxide	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**



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IATA 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions ERG Code	UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid) 8 III UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III Not applicable A3, A803 8L
<ul> <li>IMDG</li> <li>14.1 UN number or ID number</li> <li>14.2 UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group Description</li> <li>14.5 Marine pollutant</li> <li>14.6 Special precautions for user Special Provisions EmS-No</li> <li>14.7 Maritime transport in bulk according to IMO instruments</li> </ul>	UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid) 8 III UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III NP 223, 274 F-A, S-B No information available No information available
RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group Description14.5Environmental hazards14.6Special precautions for user Special Provisions Classification code	UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid) 8 III UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III Not applicable 274 C1
ADR 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code Tunnel restriction code	UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid) 8 III UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III, (E) Not applicable 274 C1 (E)



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#### **SECTION 15: Regulatory information**

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

Water hazard class (WGK) slightly hazardous to water (WGK 1)

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 does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### 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)



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

**Persistent Organic Pollutants** Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories TSCA DSL/NDSL	Contact supplier for inventory compliance status Contact supplier for inventory compliance status
EINECS/ELINCS ENCS	Contact supplier for inventory compliance status Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS AIIC	Contact supplier for inventory compliance status 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 has been carried out for this substance

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

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



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

Revision date 08-Jun-2022

Revision Number 1

#### VHG-PYN-100 - Yttrium Standard: Y @ 1000 µg/mL in 5% HNO3

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

H272 - May intensify fire; oxidiser

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

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

TWĂ	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		
Acute inhalation toxicity - Vapour	Calculation method		
Acute inhalation toxicity - dust/mist	Calculation method		
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		
Reproductive toxicity	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 SDSAgency for Toxic Substances and Disease Registry (ATSDR)U.S. Environmental Protection Agency ChemView DatabaseEuropean 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 ActU.S. Environmental Protection Agency High Production Volume ChemicalsFood Research JournalHazardous Substance DatabaseInternational Uniform Chemical Information Database (IUCLID)Japan GHS ClassificationAustralian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)



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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

#### Revision date 08-Jun-2022

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

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End of Safety Data Sheet