

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

Revision date 25-Apr-2023 Revision Number 1

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

#### 1.1. Product identifier

Product Code(s) VHG-LNIN-100

Product Name Nickel Standard: Ni @ 10 μg/mL in 2% HNO3

Form Not applicable

Unique Formula Identifier (UFI) PDSF-E0VK-F001-H55G

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

Emergency Telephone - §45 - (EC)1272/2008

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#### VHG-LNIN-100 - Nickel Standard: Ni @ 10 µg/mL in 2% HNO3

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

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

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H319 - Causes serious eye irritation

H290 - May be corrosive to metals

#### 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

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.

 Chemical name
 EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation
 EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances

 Nitric Acid
 Substances

 Nickel

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical nature

aqueous solution.

ı	Chemical name	Weight-%	REACH registration	`	Classification according		M-Factor	M-Factor
			number	Index No)	to Regulation (EC) No.			(long-term)
L					1272/2008 [CLP]	limit (SCL)		
	Nitric Acid	1 - <3	-	231-714-2	Met. Corr. 1 (H290)	Ox. Liq. 2 ::		
	7697-37-2				Ox. Liq. 2 (H272)	C>=99%		
-					Acute Tox. 3 (H331)	Ox. Liq. 3 ::		
					Skin Corr. 1A (H314)	C≥65%		
1						Skin Corr. 1A ::		
						C>=20%		

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					Skin Corr. 1B :: 5%<=C<20%	
Nickel 7440-02-0	<0.1	-	231-111-4	Skin Sens. 1 (H317) Carc. 2 (H351) STOT RE 1 (H372) Aquatic Chronic 3 (H412)		

#### 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 7697-37-2	No data available	No data available	No data available	2.65	No data available
Nickel 7440-02-0	9000	No data available	No data available	No data available	No data 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.

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

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

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

**Note to doctors**Treat symptomatically.

#### **SECTION 5: Firefighting measures**

5.1. Extinguishing media

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 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.

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

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**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.

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, 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>

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Nickel		-	Respiratory	TWA: 1 mg/m <sup>3</sup>	TWA: 0	.05 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
7440-02-0			sensitizer				Skin Sensitisation
			Skin sensitizer				
Chemical name		Cyprus	Czech Republic	Denmark		tonia	Finland
Nitric Acid		EL: 1 ppm	TWA: 1 mg/m <sup>3</sup>	STEL: 1 ppm		.: 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
Nickel			TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	T\\/\^ · (	0.5 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup> TWA: 0.01 mg/m <sup>3</sup>
7440-02-0		-	Ceiling: 1 mg/m <sup>3</sup>	TWA. 0.05 mg/m	I VVA. (	J.5 mg/m²	TVVA. 0.01 mg/m
7 440 02 0			Sensitizer				
Chemical name		France	Germany	Germany MAK	Gı	eece	Hungary
Nitric Acid	ST	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>	
Nickel		A: 1 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>	respiratory and skin		1 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>
7440-02-0		· ·	TWA: 0.006 mg/m <sup>3</sup>	sensitizer inhalable		J	
			_	fraction, respiratory			
				sensitization			
				confirmed for water			
				soluble Nickel			
			16.1	compounds only			1.41
Chemical name	0.7	Ireland	Italy	Italy REL		atvia	Lithuania
Nitric Acid		EL: 1 ppm L: 2.6 mg/m <sup>3</sup>	STEL: 1 ppm STEL: 2.6 mg/m <sup>3</sup>	TWA: 2 ppm TWA: 5.2 mg/m <sup>3</sup>		0.78 ppm 2 mg/m <sup>3</sup>	STEL: 1 ppm STEL: 2.6 mg/m <sup>3</sup>
7697-37-2	SIE	L. 2.6 mg/m <sup>2</sup>	STEL. 2.6 mg/m <sup>3</sup>	STEL: 4 ppm		∠ mg/m² .: 1 ppm	STEL. 2.6 mg/m²
				STEL: 10.3 mg/m <sup>3</sup>		2.6 mg/m <sup>3</sup>	
Nickel	TWA	A: 0.5 mg/m <sup>3</sup>	_	TWA: 1.5 mg/m <sup>3</sup>		.05 mg/m <sup>3</sup>	Sensitizer
7440-02-0		L: 1.5 mg/m <sup>3</sup>		1 vv/ t. 1.0 mg/m	1 ****	.00 1119/111	TWA: 0.5 mg/m <sup>3</sup>
		Sensitizer					
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>		: 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>	
Nickel		-	-	-		.05 mg/m <sup>3</sup>	TWA: 0.25 mg/m <sup>3</sup>
7440-02-0		Dt 1	Di-	011		0.15 mg/m <sup>3</sup>	0
Chemical name	9		Romania	Slovakia		venia	Spain
Nitric Acid 7697-37-2		VA: 2 ppm EL: 1 ppm	STEL: 1 ppm STEL: 2.6 mg/m <sup>3</sup>	Ceiling: 2.6 mg/m <sup>3</sup>		: 1 ppm 2.6 mg/m³	STEL: 1 ppm STEL: 2.6 mg/m <sup>3</sup>
1031-31-2		L: 2.6 mg/m <sup>3</sup>	31EL. 2.6 Hig/III°			2.6 mg/m <sup>2</sup> _: 1 ppm	01EL. 2.0 mg/m
		L. 2.0 mg/m²				2.6 mg/m <sup>3</sup>	
Nickel	TWA	\: 1.5 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>		006 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
7440-02-0		STEL: 0.5 mg/m <sup>3</sup>	STEL: 2.5 mg/m <sup>3</sup>		TEL mg/m <sup>3</sup>	sensitizer	
				Sensitizer			
Chemical name			weden	Switzerland			ted Kingdom
Nitric Acid			: 0.5 ppm	TWA: 2 ppm			TEL: 1 ppm
		1.3 mg/m <sup>3</sup>			EL: 2.6 mg/m <sup>3</sup>		

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	Bindande KGV: 1 ppm Bindande KGV: 2.6 mg/m³	STEL: 2 ppm STEL: 5 mg/m³	
Nickel 7440-02-0	NGV: 0.5 mg/m³ Sensitizer	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m³ STEL: 1.5 mg/m³ Sk*

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

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Nickel	-	7 μg/L (urine -	45 μg/L - urine	10 μg/L - plasma	0.077 µmol/mmol
7440-02-0	s	pontaneous urine	(Nickel) - after	(Nickel) - at the en	d Creatinine (urine -
		after end of work	several work shifts	of the work shift	Nickel discretionary)
	d	ay, at the end of a		8 μg/g Creatinine	- 0.04 mg/g Creatinine
	\	work week/end of		urine (Nickel) - at the	
		the shift)		end of the work sh	ift discretionary)
		( - )			
Chemical name	Denmark	Finland	France	Germany	Germany
Nickel		).1 µmol/L (urine -	-	3 μg/L - BAR (for	-
7440-02-0		ickel after the shift		long-term	
	I I	ter a working week		exposures: at the	
	O	r exposure period)		end of the shift after	·
				several shifts) urin	
				15 μg/L - (long-ter	
				exposure: at the er	na
				of the shift after	
				several shifts) - urir	
				30 µg/L - (long-ter	
				exposure: at the er of the shift after	iu
				several shifts) - urir	
				45 µg/L - (long-ter	
				exposure: at the er	
				of the shift after	
				several shifts) - urir	ne
Chemical name	Hungary	Ireland	d	Italy	Italy REL
Nickel	0.003 mg/L (urine - Nic			-	-
7440-02-0	at end of workweek, er				
	of shift)	working s			
	0.051 µmol/L (urine -		<i>'</i>		
	Nickel at end of				
	workweek, end of shif	t)			
Chemical name	Latvia	Luxembo	ourg R	omania	Slovakia
Nickel	-	-		- 0.0	3 mg/L (blood - Nickel
7440-02-0				er	nd of exposure or work
					shift)

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Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Nickel	-	-	45 μg/L (urine - Nickel	-
7440-02-0			end of shift, and after	
			several shifts (for	
			long-term exposures))	

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

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 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. 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
Appearance
Colour
Colour
Odour
Codour
Codourless

Odour threshold No information available

Property Values Remarks • Method

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No data available **Flammability** None known None known Flammability Limit in Air Upper flammability or explosive No data available limits Lower flammability or explosive No data available limits No data available None known Flash point **Autoignition temperature** No data available None known **Decomposition temperature** 100 °C None known No data available None known No data available pH (as aqueous solution) No information available Kinematic viscosity No data available None known Dynamic viscosity No data available None known Water solubility No data available None known None known No data available Solubility(ies) **Partition coefficient** No data available None known @ 20°C Vapour pressure 23 hPa 0.99821 g/cm3 at 20 °C Relative density None known No data available **Bulk density Liquid Density** No data available Relative vapour density No data available None known Particle characteristics No information available **Particle Size Particle Size Distribution** No information available

#### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable 100 °C 100 °C

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. 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) 139.50 mg/l

**Component Information** 

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Nitric Acid			= 2500 ppm (Rat) 1 h
			ATE (vapours) = 2.65 mg/L
Nickel	> 9000 mg/kg (Rat)		> 10.2 mg/L (Rat) 1 h

#### 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 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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Nickel	Carc. 2

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 properties

**Endocrine disrupting properties** No information available.

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11.2.2. Other information

Other adverse effects No information available.

**SECTION 12: Ecological information** 

12.1. Toxicity

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

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

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** 

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
Nickel	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.

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#### **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**

14.1 UN number or ID number UN3264

14.2 UN proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)

14.3 Transport hazard class(es)

14.4 Packing group

Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** A3, A803 8L

**ERG Code** 

**IMDG** 

14.1 UN number or ID number UN3264

14.2 UN proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)

14.3 Transport hazard class(es)

14.4 Packing group

Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s., 8, III

No information available

14.5 Marine pollutant NP

14.6 Special precautions for user

223, 274 **Special Provisions** 

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

14.7 Maritime transport in bulk

according to IMO instruments

RID

14.1 UN number or ID number UN3264

14.2 UN proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)

14.3 Transport hazard class(es)

14.4 Packing group

Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

**Special Provisions** 274 Classification code C1

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ADR

14.1 UN number or ID number UN3264

**14.2 UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)

14.3 Transport hazard class(es) 8
14.4 Packing group

**Description** UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid), 8, III, (E)

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions 274
Classification code C1
Tunnel restriction code (E)

#### SECTION 15: Regulatory information

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

Water hazard class (WGK) non-hazardous to water (nwg)

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).

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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)

#### **DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors** Not applicable

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.	
Nickel - 7440-02-0	27.	

#### **Persistent Organic Pollutants**

Not applicable

#### 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)
Nickel - 7440-02-0	Priority substance

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

Chemical name		EU - Environmental Quality Standards (2008/105/EC)		
	Nickel - 7440-0	)2-0		Priority substance

**International Inventories** 

TSCA Complies

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

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AIIC

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

H317 - May cause an allergic skin reaction

H331 - Toxic if inhaled

H351 - Suspected of causing cancer

H372 - Causes damage to organs through prolonged or repeated exposure

H412 - Harmful 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
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	On basis of test data

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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 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 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

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**End of Safety Data Sheet** 

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