

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

Revision date 26-Aug-2024 Revision Number 1.01

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

1.1. Product identifier

Product Code(s) VHG-QC7A-500

Product Name QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3,

tr. F-

Form Not applicable

Unique Formula Identifier (UFI) Y1GT-N073-M00R-UW7Q

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

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Rest of the world +1 703-741-3877

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

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 2 - (H411)
Corrosive to metals	Category 1 - (H290)

#### 2.2. Label elements

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#### Signal word Danger

#### **Hazard statements**

H315 - Causes skin irritation

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

H290 - May be corrosive to metals

EUH071 - Corrosive to the respiratory tract

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

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

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

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

P391 - Collect spillage

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

Toxic 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.

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	-	-
Ammonium silicofluoride	-	•
Boric acid	-	-
Barium nitrate	-	-

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Aluminum nitrate nonahydrate	-	-
Silver	•	-

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

#### 3.1 Substances

Not applicable

### 3.2 Mixtures

**Chemical nature** 

aqueous solution.

Chemical name	Weight-%	REACH registration number		Classification according to Regulation (EC) No.		M-Factor	M-Factor (long-term)
				1272/2008 [CLP]	limit (SCL)		
Nitric Acid 7697-37-2	3 - <5	-	231-714-2	Met. Corr. 1 (H290) Ox. Liq. 2 (H272) Acute Tox. 3 (H331) Skin Corr. 1A (H314) (EUH071)	Ox. Liq. 2 :: C>=99% Ox. Liq. 3 :: C≥65% Skin Corr. 1A :: C>=20% Skin Corr. 1B :: 5%<=C<20%		
Ammonium silicofluoride 16919-19-0	<0.1	-	240-968-3 (009-012-00 -0)	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)			
Boric acid 10043-35-3	<0.1	-	233-139-2	Repr. 1B (H360FD)			
Barium nitrate 10022-31-8	<0.1	<u>-</u>	233-020-5 (056-002-00 -7)	Ox. Sol. 2 (H272) Acute Tox. 3 (H301) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)			
Aluminum nitrate nonahydrate 7784-27-2	<0.1	-	616-523-8	Ox. Sol. 3 (H272) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)			

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Silver 7440-22-4	<0.1	-	231-131-3	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 7697-37-2	No data available	No data available	No data available	2.65	No data available
Boric acid 10043-35-3	2660	2001	2.12	No data available	No data available
Barium nitrate 10022-31-8	355	No data available	1.1138	No data available	No data available
Aluminum nitrate nonahydrate 7784-27-2	542.5	No data available	No data available	No data available	No data available
Silver 7440-22-4	5000	2000	5.16	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. Immediate medical attention is

required.

**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

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

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).

4.2. 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 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

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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

**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)

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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>
Ammonium silicofluoride	TWA: 2.5 mg/m <sup>3</sup>	-	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
16919-19-0					
Boric acid	-	-	TWA: 2 mg/m <sup>3</sup>	TWA: 5.0 mg/m <sup>3</sup>	-
10043-35-3			STEL: 6 mg/m <sup>3</sup>		
Barium nitrate	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
10022-31-8		STEL 2 mg/m <sup>3</sup>			
Aluminum nitrate	-	-	TWA: 2 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>
nonahydrate					
7784-27-2					
Silver	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
7440-22-4		STEL 0.1 mg/m <sup>3</sup>			
		Ceiling: 0.1 mg/m <sup>3</sup>			
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>
Ammonium silicofluoride	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
16919-19-0		Ceiling: 5 mg/m <sup>3</sup>	STEL: 5 mg/m <sup>3</sup>		
			except those		
			mentioned		
			elsewhere in the list		
Barium nitrate	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
10022-31-8		Ceiling: 2.5 mg/m <sup>3</sup>	STEL: 1 mg/m <sup>3</sup>		
Aluminum nitrate	-	-	TWA: 1 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
nonahydrate			STEL: 2 mg/m <sup>3</sup>		
7784-27-2					
Silver	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
7440-22-4		Ceiling: 0.3 mg/m <sup>3</sup>	STEL: 0.02 mg/m <sup>3</sup>		
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary

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Nitric Acid	STEL: 1 ppm	TWA: 1 ppm	-	STEL: 1 ppm	STEL: 2.6 mg/m <sup>3</sup>
7697-37-2	STEL: 2.6 mg/m <sup>3</sup>	TWA: 2.6 mg/m <sup>3</sup>		STEL: 2.6 mg/m <sup>3</sup>	STEL: 1 ppm
Ammonium silicofluoride	TWA: 2.5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
16919-19-0			Sk*		Sk*
Boric acid	-	TWA: 0.5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	-
10043-35-3			Peak: 10 mg/m <sup>3</sup>		
Barium nitrate	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
10022-31-8			Peak: 4 mg/m <sup>3</sup>		
Aluminum nitrate	TWA: 2 mg/m <sup>3</sup>	-	-	TWA: 2 mg/m <sup>3</sup>	-
nonahydrate					
7784-27-2					
Silver	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
7440-22-4			Peak: 0.8 mg/m <sup>3</sup>		
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Nitric Acid	STEL: 1 ppm	STEL: 1 ppm	TWA: 2 ppm	TWA: 0.78 ppm	STEL: 1 ppm
7697-37-2	STEL: 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: 2.6 mg/m <sup>3</sup>	
Ammonium silicofluoride	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
16919-19-0	STEL: 7.5 mg/m <sup>3</sup>				
Boric acid	TWA: 2 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
10043-35-3	STEL: 6 mg/m <sup>3</sup>		STEL: 6 mg/m <sup>3</sup>		
Barium nitrate	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
10022-31-8	STEL: 1.5 mg/m <sup>3</sup>			Sk*	
Aluminum nitrate	TWA: 2 mg/m <sup>3</sup>	-	-	-	TWA: 1 mg/m <sup>3</sup>
nonahydrate	STEL: 6 mg/m <sup>3</sup>				
7784-27-2					
Silver	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
7440-22-4	STEL: 0.3 mg/m <sup>3</sup>				
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Nitric Acid	STEL: 1 ppm	STEL: 1 ppm	STEL: 0.5 ppm	TWA: 2 ppm	TWA: 1.4 mg/m <sup>3</sup>
7697-37-2	STEL: 2.6 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>	STEL: 1.3 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	STEL: 2.6 mg/m <sup>3</sup>
				STEL: 4 ppm	
				STEL: 10 mg/m <sup>3</sup>	
Ammonium silicofluoride	TWA: 2.5 mg/m <sup>3</sup>	-	-	TWA: 0.5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
16919-19-0				STEL: 1.5 mg/m <sup>3</sup>	
Barium nitrate	TWA: 0.5 mg/m <sup>3</sup>	-	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
10022-31-8				STEL: 1.5 mg/m <sup>3</sup>	
Aluminum nitrate	-	-	-	TWA: 2 mg/m <sup>3</sup>	-
nonahydrate				STEL: 4 mg/m <sup>3</sup>	
7784-27-2					
Silver	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>
7440-22-4				STEL: 0.3 mg/m <sup>3</sup>	
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain

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	_			1			· ·
Nitric Acid		TWA: 2 ppm STEL: 1 ppm		Ceiling: 2.6 mg/m <sup>3</sup>			STEL: 1 ppm
7697-37-2	STEL: 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>
	STEL: 2.6 mg/m <sup>3</sup>					_: 1 ppm	
						2.6 mg/m <sup>3</sup>	
Ammonium silicofluoride	TWA	A: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>		2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>
16919-19-0					STEL:	10 mg/m <sup>3</sup>	
						Sk*	
Boric acid	TW	A: 2 mg/m <sup>3</sup>	-	-	TWA: (	0.5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
10043-35-3	STE	EL: 6 mg/m <sup>3</sup>			STEL:	1.0 mg/m <sup>3</sup>	STEL: 6 mg/m <sup>3</sup>
Barium nitrate	TWA	\: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>		0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
10022-31-8			_		STEL:	0.5 mg/m <sup>3</sup>	
Aluminum nitrate		-	-	TWA: 2 mg/m <sup>3</sup>		-	-
nonahydrate							
7784-27-2							
Silver	TWA	: 0.01 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0	.01 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
7440-22-4		· ·				).02 mg/m <sup>3</sup>	· ·
Chemical name		Sı	weden	Switzerland		United Kingdom	
Nitric Acid		NGV:	: 0.5 ppm	TWA: 2 ppm		STEL: 1 ppm	
7697-37-2		NGV: 1.3 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>		STE	:L: 2.6 mg/m <sup>3</sup>
		Bindande KGV: 1 ppm		STEL: 2 ppm			
		Bindande KGV: 2.6 mg/m <sup>3</sup>		STEL: 5 mg/m <sup>3</sup>			
Ammonium silicofluori	de	NGV: 2 mg/m <sup>3</sup>		-		TWA: 2.5 mg/m <sup>3</sup>	
16919-19-0						STEL: 7.5 mg/m <sup>3</sup>	
Boric acid			-	TWA: 1.8 mg/m	1 <sup>3</sup>		-
10043-35-3			STEL: 1.8 mg/m <sup>3</sup>				
Barium nitrate NGV:		0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m		TW	A: 0.5 mg/m <sup>3</sup>	
10022-31-8			STEL: 4 mg/m <sup>3</sup>			L: 1.5 mg/m <sup>3</sup>	
Aluminum nitrate nonahydrate NC		NGV:	: 1 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>		TV	/A: 2 mg/m <sup>3</sup>
7784-27-2				3			EL: 6 mg/m <sup>3</sup>
Silver		NGV:	0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m	1 <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	
7440-22-4			-	STEL: 0.8 mg/m <sup>3</sup>		STEL: 0.3 mg/m <sup>3</sup>	

### **Biological occupational exposure limits**

Chemical name	European Union	Austria	Austria Bulgaria Croatia		Czech Republic
Ammonium silicofluoride	-	Check	-	8 mg/g Creatinine -	-
16919-19-0		4 mg/g Creatinine		urine (Fluorides) - at	
		(urine - before		the end of the work	
		following shift)		shift	
		7 mg/g Creatinine		4.0 mg/g Creatinine -	
		(urine - immediately		urine (Fluorides) -	
		after exposure or		before the start of	

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**Revision Number** 1.01

VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3, tr.

		end of the shift)				the work shift in		
Chemical name	Denmark		Finland	France		Germany DF	G	Germany TRGS
Ammonium silicofluoride 16919-19-0	-	-		- urine (Fluorides) - beginning of shift - urine (Fluorides) - end of shift		4.0 mg/g Creat	inine	4.0 mg/g Creatinine (urine - Fluoride end of shift)
Barium nitrate 10022-31-8	-				10 μg/L - BAR (for long-term exposures: at the end of the shift after several shifts) urine		-	
Chemical name	Hungary		Ireland	d	Italy	y MDLPS		Italy AIDII
Ammonium silicofluoride 16919-19-0	7 mg/g Creatinine (ur Fluoride end of shi 4 mg/g Creatinine (ur Fluoride prior to next: 42 µmol/mmol Creati (urine - Fluoride end shift) 24 µmol/mmol Creati (urine - Fluoride prio next shift)	ift) rine - shift) inine d of	2 mg/L (urine prior to s prior to s 3 mg/L (urine end of sl	hift) · Fluoride hift)	Fluoride - ift) Fluoride		(Fluc	g/g Creatinine - urine orides) - prior to shift g/g Creatinine - urine orides) - end of shift
Chemical name	Latvia		Luxembourg		Romania			Slovakia
Ammonium silicofluoride 16919-19-0			-			reatinine - urine e) - end of shift		
Chemical name	Slovenia		Spain		Sw	ritzerland		United Kingdom
Ammonium silicofluoride 16919-19-0	7.0 mg/g Creatining urine (Fluoride) - at end of the work sh 4.0 mg/g Creatining urine () - before the rworking day	the nift e -	-					-

**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. Avoid contact with eyes. Wear safety glasses with side shields

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VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3, tr. F-

(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.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

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 colourless Colour Odour Odourless.

**Odour threshold** No information available

Property Values Remarks • Method

No data available Melting point / freezing point None known Initial boiling point and boiling rangeNo data available None known **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

No data available Flash point None known No data available **Autoignition temperature** None known **Decomposition temperature** None known

No data available pН

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

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VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3, tr. F-

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 No data available **Bulk density** 

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

**Incompatible materials** Oxidising agent. Strong acids. Strong bases.

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VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3, tr. F-

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 damage.

May cause irreversible damage to eyes.

**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. Burning. May cause blindness. 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 (oral)
 99,999.00
 mg/kg

 ATEmix (dermal)
 99,999.00
 mg/kg

 ATEmix (inhalation-gas)
 99,999.00
 ppm

 ATEmix (inhalation-dust/mist)
 99,999.00
 mg/l

 ATEmix (inhalation-vapour)
 58.90
 mg/l

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Nitric Acid			= 2500 ppm (Rat) 1 h

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VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3, tr. F-

Boric acid	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	ATE (vapours) = 2.65 mg/L > 2.12 mg/L ( Rat ) 4 h
Barium nitrate	= 355 mg/kg (Rat)		> 1.1 mg/L (Rat)243 min
Aluminum nitrate nonahydrate	= 542.5 mg/kg ( Rat )		
Silver	> 5000 mg/kg (Rat)	> 2000 mg/kg ( rat )	> 5.16 mg/L (Rat)4 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 burns. Causes serious eye

damage.

**Respiratory or skin sensitisation** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

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

Chemical name	European Union
Boric acid	Repr. 1B

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

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

**Aspiration hazard** No information available.

11.2. Information on other hazards

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VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3, tr. F-

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** Toxic to aquatic life. Toxic 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
Ammonium silicofluoride	-	LC50: =25.8mg/L (96h, Pimephales promelas)	-	-
Boric acid	-	-	-	EC50: 115 - 153mg/L (48h, Daphnia magna)
Silver	-	LC50: 0.00155 - 0.00293mg/L (96h, Pimephales promelas) LC50: =0.0062mg/L (96h, Oncorhynchus mykiss) LC50: =0.064mg/L (96h, Lepomis macrochirus)	<u>-</u>	EC50: =0.00024mg/L (48h, Daphnia magna)

#### 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** 

beni penent in ermaten		
Chemical name	Partition coefficient	
Nitric Acid	-2.3	
Ammonium silicofluoride	-6.01 @ 20 °C	

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VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000  $\mu$ g/mL in 5% HNO3, tr. F-

Boric acid -1.09

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
Nitric Acid	The substance is not PBT / vPvB
Ammonium silicofluoride PBT assessment does not apply	
Boric acid	The substance is not PBT / vPvB
Barium nitrate	The substance is not PBT / vPvB
Aluminum nitrate nonahydrate	PBT assessment does not apply
Silver	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**

#### <u>IATA</u>

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)

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VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3, tr. F-

14.4 Packing group

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

14.5 Environmental hazards Yes

14.6 Special precautions for user

**Special Provisions** A3, A803 **ERG Code** 8L

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 Ш

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

14.5 Marine pollutant **Environmental hazards** Yes

14.6 Special precautions for user

**Special Provisions** 223, 274

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

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)

No information available

14.3 Transport hazard class(es) 14.4 Packing group Ш

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

> Hazardous Yes

14.5 Environmental hazards

14.6 Special precautions for user

274 **Special Provisions** Classification code C1

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) 14.4 Packing group Ш

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

Hazardous

Yes

14.5 Environmental hazards

14.6 Special precautions for user

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

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

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

National regulations

Germany

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

TA Luft (German Air Pollution Control Regulation)

#### Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
Boric acid	-	-	Fertility Category 1B
			Development Category 1B
Aluminum nitrate nonahydrate	-	-	Can be harmful via
			breastfeeding
			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

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VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3, tr. F-

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)

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

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9

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
Γ	Nitric Acid - 7697-37-2	75.	
	Boric acid - 10043-35-3	30. 75.	
Γ	Silver - 7440-22-4	75.	

#### **Persistent Organic Pollutants**

Not applicable

### Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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

Biocidal Products Regulation (EU) No 528/2012 (BPR)

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Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Boric acid - 10043-35-3	Product-type 8: Wood preservatives
Silver - 7440-22-4	Product-type 2: Disinfectants and algaecides not intended
	for direct application to humans or animals Product-type 4:
	Food and feed area Product-type 5: Drinking water
	Product-type 9: Fibre, leather, rubber and polymerised
	materials preservatives Product-type 11: Preservatives for
	liquid-cooling and processing systems

**International Inventories** 

TSCA LGC, to the best of its ability, has confirmed that the chemical substances in this product are

listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as

amended Feb 2021."

DSL/NDSL
Contact supplier for inventory compliance status
IECSC
Contact supplier for inventory compliance status
KECI
Contact supplier for inventory compliance status
PICCS
Contact supplier for inventory compliance status
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 is not required for this substance

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

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

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

EUH071 - Corrosive to the respiratory tract

H272 - May intensify fire; oxidiser

H290 - May be corrosive to metals

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H332 - Harmful if inhaled

H360FD - May damage fertility. May damage the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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 Sk\* 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

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VHG-QC7A-500 - QC Standard 7A: Ag @ 50; Al, B, Ba, Na @ 100; Si @ 500; K @ 1000 μg/mL in 5% HNO3, tr. F-

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

Revision date

26-Aug-2024

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 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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