

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

Revision date 24-Jul-2023 Revision Number 1

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

1.1. Product identifier

Product Code(s) VHG-LSNH-100

Product Name Tin Standard: Sn @ 10 μg/mL in 5% HCl

Form Not applicable

Unique Formula Identifier (UFI) XEUM-509N-N005-DHYG

Pure substance/mixture Mixture

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

Recommended use Laboratory use

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier

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

Web: www.lgcstandards.com

For further information, please contact

E-mail address sds-request@lgcgroup.com

1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

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

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

Corrosive to metals Category 1 - (H290)

2.2. Label elements



Warning

Hazard statements

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H290 - May be corrosive to metals

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

P234 - Keep only in original packaging

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

Causes mild skin irritation.

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).

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

Hydrochloric acid

This product does not contain any known or suspected endocrine disruptors.

EU - REACH (1907/2006) - Endocrine
Disruptor Assessment List of
Substances

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature

aqueous solution.

Chemical name	Weight-%	REACH registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Hydrochloric acid	1 - <3	-	(017-002-00	Met. Corr. 1 (H290)	Eye Irrit. 2 ::		
7647-01-0			-2)	Skin Corr. 1B (H314)	10%<=C<25%		
			231-595-7	STOT SE 3 (H335)	Skin Corr. 1B ::		
					C>=25%		
					Skin Irrit. 2 ::		
					10%<=C<25%		
					STOT SE 3 ::		
					C>=10%		
Tin	<0.1	-	231-141-8	-			

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7440-31-5				

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 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
Hydrochloric acid 7647-01-0	238	5010	No data available	No data available	563.3022
Tin 7440-31-5	700	2000	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.

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 Prolonged contact may cause redness and irritation.

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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.

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 containment and cleaning up

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

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Methods for cleaning upTake 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.

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
Hydrochloric acid	TWA: 5 ppm	TWA: 5 ppm	TWA: 5 ppm	STEL: 10 ppm	TWA: 5 ppm
7647-01-0	TWA: 8 mg/m ³	TWA: 8 mg/m ³	TWA: 8 mg/m ³	STEL: 15.0 mg/m ³	TWA: 8 mg/m ³
	STEL: 10 ppm	STEL 10 ppm	STEL: 10 ppm	TWA: 5 ppm	STEL: 10 ppm
	STEL: 15 mg/m ³	STEL 15 mg/m ³	STEL: 15 mg/m ³	TWA: 8.0 mg/m ³	STEL: 15 mg/m ³

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		<u> </u>				I
Tin 7440-31-5	TWA: 2 mg/r	m ³ TWA: 2 mg/m ³ STEL 4 mg/m ³	TWA: 2 mg/m ³		.1 mg/m ³ .0 mg/m ³	TWA: 2 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark		onia	Finland
Hydrochloric acid	STEL: 10 pp		STEL: 5 ppm		5 ppm	STEL: 5 ppm
7647-01-0	STEL: 15 mg/			TWA: 8	3 mg/m ³	STEL: 7.6 mg/n
	TWA: 5 ppr		J		10 ppm	
	TWA: 8 mg/r			STEL: 1	5 mg/m ³	
Tin	TWA: 2 mg/r		TWA: 2 mg/m ³	TWA: 2	2 mg/m ³	TWA: 2 mg/m ³
7440-31-5		Ceiling: 4 mg/m ³	STEL: 4 mg/m ³			
Chemical name	France	Germany	Germany MAK		ece	Hungary
Hydrochloric acid	STEL: 5 ppr	n TWA: 2 ppm	TWA: 2 ppm		5 ppm	TWA: 8 mg/m ³
7647-01-0	STEL: 7.6 mg	/m³ TWA: 3 mg/m³	TWA: 3.0 mg/m ³		7 mg/m³	TWA: 5 ppm
			Peak: 4 ppm		5 ppm	STEL: 165 mg/r
			Peak: 6 mg/m ³		7 mg/m ³	STEL: 10 ppm
Tin	-	-	-	TWA: 2	2 mg/m³	TWA: 2 mg/m ³
7440-31-5						STEL: 8 mg/m
Chemical name	Ireland	Italy	Italy REL	La	tvia	Lithuania
Hydrochloric acid	TWA: 8 mg/r		Ceiling: 2 ppm		5 ppm	TWA: 5 ppm
7647-01-0	TWA: 5 ppr		Ceiling: 2.9 mg/m ³		3 mg/m ³	TWA: 8 mg/m
	STEL: 10 pp				10 ppm	STEL: 10 ppm
	STEL: 15 mg/				5 mg/m ³	STEL: 15 mg/m
Tin	TWA: 2 mg/r		TWA: 2 mg/m ³	TWA: 2	2 mg/m³	TWA: 2 mg/m ³
7440-31-5	STEL: 6 mg/l					
Chemical name	Luxembour		Netherlands		rway	Poland
Hydrochloric acid	STEL: 10 pp		TWA: 5 ppm		: 5 ppm	STEL: 10 mg/n
7647-01-0	STEL: 15 mg/		TWA: 8 mg/m ³	Ceiling:	7 mg/m ³	TWA: 5 mg/m
	TWA: 5 ppr		STEL: 10 ppm			
	TWA: 8 mg/r		STEL: 15 mg/m ³			
Tin	TWA: 2 mg/r	m ³ TWA: 2 mg/m ³	TWA: 2 mg/m ³		2 mg/m ³	TWA: 2 mg/m
7440-31-5			21 11		4 mg/m ³	
Chemical name	Portugal	Romania	Slovakia		/enia	Spain
Hydrochloric acid	TWA: 5 ppr		TWA: 5 ppm		5 ppm	TWA: 5 ppm
7647-01-0	TWA: 8 mg/r		TWA: 8.0 mg/m ³		3 mg/m ³	TWA: 7.6 mg/n
	STEL: 10 pp		Ceiling: 15 mg/m ³		10 ppm	STEL: 10 ppm
	STEL: 15 mg/			SIEL: 1	5 mg/m ³	STEL: 15 mg/n
Tin	Ceiling: 2 pp TWA: 2 mg/r		T\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	T\\/\\.	2 m a /m 3	T\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
7440-31-5	i vvA: ∠ mg/r	m³ TWA: 2 mg/m³	TWA: 2 mg/m ³		2 mg/m ³ 3 mg/m ³	TWA: 2 mg/m
1440-31-3			Ceiling: 4 mg/m ³	I IVVA.	o mg/m²	
Chemical name		Sweden	Switzerland		Un	ited Kingdom
Hydrochloric acid		NGV: 2 ppm	TWA: 2 ppm		T	WA: 1 ppm
7647-01-0		NGV: 3 mg/m ³	TWA: 3 mg/m	3	TV	VA: 2 mg/m ³
		lande KGV: 4 ppm	STEL: 4 ppm			TEL: 5 ppm
		ande KGV: 6 mg/m ³	STEL: 6 mg/m	3		EL: 8 mg/m ³

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Tin 7440-31-5	NGV: 2 mg/m³	TWA: 0.004 ppm TWA: 0.02 mg/m³ TWA: 0.003 ppm TWA: 0.015 mg/m³ STEL: 0.004 ppm	TWA: 2 mg/m³ STEL: 4 mg/m³
		STEL: 0.02 mg/m ³ H*	

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)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Hand protection Wear protective Neoprene™ gloves. Wear suitable 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 Wear suitable protective clothing.

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

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

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Physical stateLiquidAppearanceLiquidColourcolourlessOdourOdourless.

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash pointNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNone known

pH No data available None known
pH (as aqueous solution) No data available No information available

Kinematic viscosity No data available None known No data available **Dynamic viscosity** 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 No data available Relative density 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

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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.

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.

Skin contact Specific test data for the substance or mixture is not available. Causes mild skin irritation.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.

Numerical measures of toxicity

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Acute toxicity

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

 ATEmix (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)
 99,999.00
 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat)1 h
Tin	= 700 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 4.75 mg/L (Rat)4 h

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

Skin corrosion/irritationClassification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation No information available.

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.

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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.

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 toxicityContains 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 No information available.

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
Hydrochloric acid	The substance is not PBT / vPvB PBT assessment does
	not apply
Tin	The substance is not PBT / vPvB PBT assessment does

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not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

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

environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number UN3264

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

14.3 Transport hazard class(es)

14.4 Packing group Ш

Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid), 8, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions A3, A803

ERG Code 8L

IMDG

UN3264 14.1 UN number or ID number

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

14.3 Transport hazard class(es)

14.4 Packing group

UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid), 8, III Description

14.5 Marine pollutant

14.6 Special precautions for user

Special Provisions

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

NP

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14.7 Maritime transport in bulk according to IMO instruments

No information available

RID

UN3264 14.1 UN number or ID number

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

14.3 Transport hazard class(es) 14.4 Packing group

Description UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid), 8, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions 274 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. (Hydrochloric acid)

14.3 Transport hazard class(es) 14.4 Packing group Ш

UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid), 8, III, (E)

Description 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

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packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650) . Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

European Union

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

Authorisations and/or restrictions on use:

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

DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursorsNot applicable

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Hydrochloric acid - 7647-01-0	75.	
Tin - 7440-31-5	75	

Persistent Organic Pollutants

Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)

	(==:=::===)	
Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Hydrochloric acid - 7647-01-0	25	250

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

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

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	Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Ī	Hydrochloric acid - 7647-01-0	Product-type 2: Disinfectants and algaecides not intended
		for direct application to humans or animals

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

Legend:

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

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

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

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

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

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

Revision date 24-Jul-2023 Revision Number 1

VHG-LSNH-100 - Tin Standard: Sn @ 10 μg/mL in 5% HCI

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

Ceiling Maximum limit value * Skin designation

Method Used
Calculation method
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

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Revision date 24-Jul-2023 Revision Number 1

VHG-LSNH-100 - Tin Standard: Sn @ 10 μg/mL in 5% HCl

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

Revision date 24-Jul-2023

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

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