SPECTRASCAN®

SAFETY DATA SHEET

Issuing Date 30-May-2017 Revision Date 07-Apr-2017 Revision Number 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name/Catalog ID SS-0118

Product Description 100 μg/mL Gold

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

Recommended Use Laboratory chemicals

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Company

Teknolab Verkstedveien 29 1400 Ski Norway

Tel:+47 66 81 34 70 Fax: +47 66 81 34 71 e-mail: mail@teknolab.no Web: www.spectrascan.no

1.4. Emergency telephone number

Chemtrec 1-800-424-9300 (North America) Chemtrec +1 703-741-5970 (International)

Europe	See above
Norway	Poisons Information (NO):+ 47 22 591300

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)

Xi - Irritant

R-code(s)

Xi;R36/37/38

GHS

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3

For the full text of the R phrases mentioned in this Section, see Section 16

2.2. Label Elements

Product identifier



Signal word Warning

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

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

2.3. Other information

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC No	CAS No	Weight-%	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg
Hydrochloric acid	EEC No. Present	7647-01-0	10	T; R23 C; R35 C; R34 Xi: R37	STOT SE 3 (H335) Skin Corr. 1B (H314)	No data avail

For the full text of the R phrases mentioned in this Section, see Section 16

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4: FIRST AID MEASURES

4.1. Description of first-aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Inhalation Move to fresh air. Artificial respiration and/or oxygen may be necessary. Avoid direct

contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical

attention is required.

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

shoes. If skin irritation persists, call a physician.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub

affected area. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water.

Never give anything by mouth to an unconscious person. Consult a physician.

Protection of First-aidersUse personal protective equipment. Avoid contact with skin, eyes and clothing.

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

Most Important Symptoms and

Difficulty breathing.

Effects

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

Notes to Physician Treat symptomatically

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Refer to protective measures listed in Sections 7 and 8.

Advice for emergency responders

Ensure adequate ventilation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.

6.3. Methods and materials 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 and collect in suitable container for disposal.

6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

Section 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Technical measures/Precautions

Ensure adequate ventilation.

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Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Precautions

Keep container tightly closed in a dry and well-ventilated place.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	EU	The United K	ingdom	Fra	ance		Spain	Germany
Hydrochloric acid		TWA: 1 p	pm	VLCT: 7	7.6 mg/m ³	ST	EL: 10 ppm	TWA: 2 ppm
7647-01-0		TWA: 2 m	g/m³	VLTC	: 5 ppm	STE	EL: 15 mg/m ³	TWA: 3.0 mg/m ³
		STEL: 5 p	opm			T'	WA: 5 ppm	Ceiling / Peak: 4 ppm
		STEL: 8 m	STEL: 8 mg/m ³			TW	A: 7.6 mg/m ³	Ceiling / Peak: 6
								mg/m³
	<u>L</u>							TWA: 3 mg/m ³
Component	Italy	Portug	gal	The Netherlands		Finland		Denmark
Hydrochloric acid	TWA: 5 ppm	STEL: 10) ppm	STEL: 15 mg/m ³ ST		STE	EL: 7.6 mg/m ³	Ceiling: 7 mg/m ³
7647-01-0 (10)	TWA: 8 mg/m ³	STEL: 15	mg/m³	TWA: 8 mg/m ³		S	TEL: 5 ppm	Ceiling: 5 ppm
		Ceiling: 2	2 ppm					
		TWA: 5						
		TWA: 8 n	ng/m³					
Chemical Name	Sweden	Austria	Switze	rland	Poland	t	Norway	Ireland
Hydrochloric acid		STEL 10 ppm	STEL: 4 ppm		NDSCh: 10r	mg/m³	Ceiling: 5 ppm	TWA: 5 ppm
7647-01-0		STEL 15 mg/m ³	STEL: 6	STEL: 6 mg/m ³ NDS: 5r		g/m³ Ceiling 7 mg/m³		TWA: 8 mg/m ³
		TWA: 5 ppm	TWA: 2 ppm					STEL: 10 ppm
		TWA: 8 mg/m ³	TWA: 3.0	0 mg/m ³				STEL: 15 mg/m ³

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection Tightly fitting safety goggles.

Hand Protection Impervious gloves.

Skin and Body Protection Long sleeved clothing. Boots.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators. If exposure limits are exceeded or irritation is experienced,

NIOSH/MSHA approved respiratory protection should be worn.

Environmental Exposure Controls Prevent product from entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical stateLiquidAppearanceclear / YellowOdorSlight chlorine

Property Values

pH VALUENo data availableMelting Point/RangeNo data availableBoiling Point/RangeNo data availableFlash PointNot applicable

SS-0118

Evaporation rateNo data availableFlammability (solid, gas)No data availableVapor PressureNo data availableVapor densityNo data availableRelative DensityNo data availableSpecific GravityNo data available

Water Solubility Miscible

Partition coefficient: n-octanol/waterNo data availableAutoignition temperatureNo data availableDecomposition temperatureNo data availableViscosityNo data available

Explosive PropertiesNo information available **Oxidizing Properties**No information available

Other information

VOC Content No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical Stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

10.3. Possibility of Hazardous Reactions

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

10.4. Conditions to Avoid

Heat, flames and sparks.

10.5. Incompatible materials

Reducing agent

10.6. Hazardous Decomposition Products

Hydrogen chloride.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information Irritating to eyes. Irritating to skin. Irritating to respiratory system. Harmful by inhalation.

Inhalation Vapors may be irritating to eyes, nose, throat, and lungs. Harmful by inhalation.

Eye Contact Irritating to eyes.

Skin Contact Irritating to skin.

Ingestion Ingestion may cause irritation to mucous membranes.

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

ATEmix (oral) 7,000.00 mg/kg
ATEmix (dermal) 50,150.10 mg/kg
ATEmix (inhalation-dust/mist) 5.01 mg/l
ATEmix (inhalation-vapor) 30.00 mg/l

Unknown acute toxicity

0.017 % of the mixture consists of ingredient(s) of unknown toxicity.

Skin corrosion/irritationNo information available.

Eye damage/irritation No information available.

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenic effects No information available.

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target Organ Effects Eyes, Respiratory system, Skin.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Contains 0.017 % of components with unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydrochloric acid		282: 96 h Gambusia affinis mg/L	
		LC50 static	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

Products

Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging Do not re-use empty containers.

Other Information According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

Section 14: TRANSPORT INFORMATION

IMDG

14.1. UN-No UN3264

14.2. Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s

14.3. Hazard Class 8 **14.4. Packing Group** III

Description Not applicable

14.5. Marine Pollutant None14.6. Special Provisions None

14.7. Transport in bulk according No information available

to Annex II of MARPOL 73/78 and

the IBC Code

RID

14.1. UN-No UN3264

14.2. Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s

14.3. Hazard Class 8
14.4. Packing Group III

Description Not applicable

14.5. Environmental hazard None14.6. Special Provisions None

ADR

14.1. UN-No UN3264

14.2. Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s

14.3. Hazard Class 8
14.4. Packing Group III

Description Not applicable

14.5. Environmental hazard None14.6. Special Provisions None

ICAO

14.1. UN-No UN3264

14.2. Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s

14.3. Hazard Class 8
14.4. Packing Group III

Description Not applicable

14.5. Environmental hazard None **14.6. Special Provisions** None

IATA-DGR

14.1. UN-No UN3264

14.2. Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s; Corrosive liquid, acidic, inorganic, n.o.s

14.3. Hazard Class 8
14.4. Packing Group |||

Description Not applicable

14.5. Environmental hazard None **14.6. Special Provisions** None

Section 15: REGULATORY INFORMATION

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

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

International Inventories

All of the components in the product are on the following Inventory lists: U.S.A. (TSCA), Europe (EINECS/ELINCS/NLP), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), China (IECSC), Australia (AICS), Korea (ECL).

TSCA Complies **EINECS/ELINCS** Complies Complies **DSL/NDSL PICCS** Complies **ENCS** Complies Complies **IECSC AICS** Complies **KECL** Complies

Legend

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

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R34 - Causes burns

R37 - Irritating to respiratory system

R36/37/38 - Irritating to eyes, respiratory system and skin

Full text of H-Statements referred to under section 3

H335 - May cause respiratory irritation

H314 - Causes severe skin burns and eye damage

Revision Date 07-Apr-2017

Reason for Revision

Not applicable.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet