

SAFETY DATA SHEET

(In accordance with COMMISSION REGULATION (EU) No 453/2010)

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

Product identifier

Product code 1856218 Product name Silver Stain

Chemical Name Not Applicable

REACH registration number No registration number is given yet for this substance / substances in this mixture

since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet

expired.

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

Relevant identified uses For research use only

Use Description Code SU22 - Public domain (administration, education, entertainment, services,

craftsmen), PROC15 - Use as a laboratory reagent, PC21 - Laboratory chemicals,

Product name Silver Stain

SU24 - Scientific research and development

Uses advised against Not for consumer use.

Details of the supplier of the safety data sheet

Manufacturer/Supplier

LIFE TECHNOLOGIES EUROPE BV

KWARTSWEG 2
Pierce Biotechnology
2665 NN BLEISWIJK

NETHERLANDS
Rockford, IL 61105
31-(0)180 392 400
United States
Email: MSDS@lifetech.com
1.815.968.0747 or
1.800.874.3723

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and +1

[or Dangerous Goods] Incident. Spill, Leak, Fire, 703-527-3887

Exposure, or Accident. Call CHEMTRECOutside the USA + Canada: +1 703-741-5970

Country specific Emergency Number (if available):

CHEMTREC Ireland (Dublin) +(353)-19014670 (Greeting Language: English and Irish)

CHEMTREC UK (London) +(44)-870-8200418 (Greeting Language: English)

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SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Physical hazards

Not classified

Health hazards

Not classified

Environmental Hazards

Acute aquatic toxicity

Category 1

Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal word

Warning

Hazard Statements

H400 - Very toxic to aquatic life

Precautionary Statements

Prevention

P273 - Avoid release to the environment

Response

P391 - Collect spillage

Storage

Not Applicable

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

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SECTION 3: Composition/information on ingredients

Component	CAS-No.	EINECS-No.	Weight percent	REACH registration number	Classification according to Regulation (EC) No 1272/2008 [CLP]
Silver nitrate 7761-88-8 (<0.25)	7761-88-8	231-853-9	<0.25	01-2119513705-43-X XXX	Oxid. Sol. 2 - H272Corr. 1B - H314Acute 1 - H400Chronic 1 - H410

SECTION 4: First aid measures

Description of first aid measures

Skin contact Rinse with plenty of water. Immediate medical attention is not required.

Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact

and easy to do.

INGESTION Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

Inhalation Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

H400 - Very toxic to aquatic life

Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

Extinguishing media

Suitable Extinguishing Media **Unsuitable Extinguishing Media** Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

No information available.

Special hazards arising from the substance or mixture Not known.

Advice for fire-fighters Standard procedure for chemical fires.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

Environmental precautions

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See section 8 for more information.

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SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. Wear personal protective equipment.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Specific end use(s)

For research use only.

Deviation data 20 May 2047

SECTION 8: Exposure controls/personal protection

Control parameters

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Silver nitrate	0.01 mg/m ³	None	None
7761-88-8			

Chemical Name	Austria	Belgium (TWA)	Denmark (TWA)	Finland OEL (TWA)
Silver nitrate	0.01 mg/m ³	0.01 mg/m ³	0.01 mg/m ³	0.1 mg/m³
7761-88-8	_	_	_	

Chemical Name	France OEL (VME)	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Silver nitrate	0.01 mg/m ³	0.01 mg/m ³ exposure factor	0.01 mg/m ³	0.01 mg/m ³
7761-88-8	_	2		-

Chemical Name	Sweden - Occupational Exposure Limits - TLVs	Netherlands OEL (MAC)	Spain OEL (TWA)	United Kingdom
011	(LLVs)	0.04	0.04	2.71444
Silver nitrate	0.01 mg/m ³ LLV (total dust,	0.01 mg/m³	0.01 mg/m ³	0.01 mg/m³ TWA (as Ag)
7761-88-8	as Ag); 0.1 mg/m³ LLV			
	(sparingly soluble, total dust,			
	as Ag)			

Chemical Name	European Union	France OEL (VME)	Germany OEL (TWA)
Silver nitrate	None	0.01 mg/m ³	0.01 mg/m ³ exposure factor
7761-88-8		_	2

Chemical Name	Italy OEL (TWA)	Portugal	Netherlands OEL (MAC)	Finland OEL (TWA)
Silver nitrate	0.01 mg/m ³	None	0.01 mg/m ³	0.1 mg/m³
7761-88-8	_		_	_

Chemical Name	Austria	Denmark	Poland	Switzerland
Silver nitrate	0.01 mg/m ³	None	None	None
7761-88-8	_			

Chemical Name	Ireland	Norway	Lithuania OEL (TWA)	Spain OEL (TWA)
Silver nitrate	None	None	0.01 mg/m ³	0.01 mg/m ³
7761-88-8			0.1 mg/m ³	_

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal protection equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

Hand Protection Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles.

Skin and body protection Wear suitable protective clothing.

Handle in accordance with good industrial hygiene and safety practice. Hygiene measures

Environmental exposure controls

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No special environmental precautions required.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Liquid Odourless

Melting point / melting range

C Mixture has not been tested

C Mixture has not been tested

C Mixture has not been tested

Flash point

Autoignition temperature Decomposition temperature

Evaporation rate Flammability (solid, gas)

Upper explosion limit Lower explosion limit Vapour Pressure Relative density Specific gravity

Solubility Partition coefficient:

n-octanol/water

Explosive properties

No data available
Mixture has not been tested
Mixture has not been tested
Mixture has not been tested

No data available No data available No data available

No data available

Mixture has not been tested

Mixture has not been tested

°C Mixture has not been tested

°C Mixture has not been tested

°C Mixture has not been tested

OTHER INFORMATION No data available

°F Mixture has not been tested °F Mixture has not been tested °F Mixture has not been tested

°F Mixture has not been tested °F Mixture has not been tested

SECTION 10: Stability and reactivity

Reactivity None known.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to AvoidNo information available.

Incompatible MaterialsNo dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

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SECTION 11: Toxicological information

Information on toxicological effects

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Silver nitrate	= 1173 mg/kg (Rat)	No data available	No data available

Principal Routes of Exposure, Potential health effects

Conclusive but not sufficient for classification Irritation

Conclusive but not sufficient for classification Corrosivity

Sensitisation Conclusive but not sufficient for classification

Conclusive but not sufficient for classification **STOT - Single Exposure**

STOT - Repeated Exposure Conclusive but not sufficient for classification

Conclusive but not sufficient for classification Carcinogenicity

Conclusive but not sufficient for classification Mutagenicity

Reproductive toxicity Conclusive but not sufficient for classification

Aspiration Hazard Conclusive but not sufficient for classification

SECTION 12: Ecological information

Toxicity

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

Chemical Name	Freshwater Algae	Water Flea Data	Freshwater Fish	Microtox Data	log Pow
	Data		Species Data		
Silver nitrate	No data available	Daphnia magna	No data available	No data available	No data available
		EC500.0008 - 0.0011			
		mg/L (48 h) Daphnia			
		magna EC50=0.0006			
		mg/L (48 h) Daphnia			
		magna EC500.0008 -			
		0.001 mg/L (48 h)			

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects No information available.

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

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SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations.

UN Number Not Applicable

UN proper shipping name Not applicable

Transport hazard class(es) Not Applicable

Packing group Not applicable

Environmental Hazards Not applicable

Special precautions for user Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

Substances of Very High Concern

None.

Restricted substances under EC 1907/2006, Annex XVII

Substances listed under Annex I of Regulation (EC) No 689/2008

Restricted substances under Annex V of Regulation (EC) No 689/2008 None.

Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC None.

German Water hazard classes (Wassergefährdungsklassen)

Chemical Name	.	 Classification (VwVwS) -	Germany - Water Classification (VwVwS) - Annex 3
Silver nitrate	<0.25	hazard class 3 - severe hazard to waters	

Other International Inventories

Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
Silver nitrate	Listed	-	Listed	Listed

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
Silver nitrate	Listed	Listed	Listed	-

Chemical Safety Assessment

No Chemical safety assessment has been carried out.

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SECTION 16: Other information

Reason for revision Update according to Commission Regulation (EU) No 453/2010.

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References

ECHA: http://echa.europa.eu/TOXNET: http://toxnet.nlm.nih.gov/

eChemPortal: http://www.echemportal.org/

• LOLI database: https://www.chemadvisor.com/loli-database

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Acute aquatic toxicity Category 1

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"
