

SAFETY DATA SHEET

SILVERLOD S 55 202330205

Last changed: 12/06/2012

Internal No: 202330205

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

1.1 Product identifier

Trade name / designation SILVERLOD S 55 202330205

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

1.3 Details of the supplier of the safety data sheet

NATIONAL MANUFACTURER/IMPORTER

Enterprise Luna Verktyg & Maskin AB
Postal code 441 80 Alingsås
Country Sverige
E-mail mikael.olsson@luna.se
Internet www.luna.se
Telephone +46 322 60 60 00
Fax +46 60 64 43

CONTACT PERSONS

Name	E-mail	Telephone	Country
Mikael Olsson			

2 Hazards identification

2.1 Classification of the substance or mixture

DPD Classification: N; R50/53

CLP Classification: Aquatic Chronic 1H410

Most important HSE hazard effects: Very toxic to aquatic life with long lasting effects.

2.2 Label elements



Signal word: None

EC-Label: No

COMPOSITION

Kaliummetaborat (0,2 - 2,5 %), Kaliumtetrafluoroborat (4 - 8 %), Zinkpulver-zinkdamm (stabiliserat (14 - 22 %), 2-Metoxi-1-metyletylacetat (0,2 - 2 %), Silver (38 - 47 %)

H Statements

H410 Very toxic to aquatic life with long lasting effects.

P Statements

P102 Keep out of reach of children.

2.3 Other hazards

SAFETY DATA SHEET

SILVERLOD S 55 202330205

Last changed: 12/06/2012

Internal No: 202330205

3 Composition/information on ingredients

3.2 Mixtures

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
Kaliummetaborat		237-262-2	16481-66-6	0,2 - 2,5 %	Xi,R36/37/38	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335
Kaliumtetrafluoroborat		237-928-2	14075-53-7	4 - 8 %	Xn,Xi,R20/22 - R36	Acute Tox. 4 H302 Acute Tox. 4 H332 Eye Irrit. 2 H319
Zinkpulver-zinkdamm (stbiliserat)		231-175-3	7440-66-6	14 - 22 %	N,R50 - R53	Aquatic Acute 1 H400 Aquatic Chronic 4 H413
2-Metoxi-1-metyletylacetat		203-603-9	108-65-8	0,2 - 2 %	R10 - R36	Flam. Sol. 2 H228 Eye Irrit. 2 H319
Silver		231-131-3	7440-22-4	38 - 47 %	R52	Aquatic Chronic 3 H412

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

4 First aid measures

4.1 Description of first aid measures

INHALATION

Move the exposed person to fresh air at once. In the event of breathing difficulties, administer artificial respiration or oxygen. Get medical attention immediately! Keep an eye on the injured person. Fluid accumulation in the lungs (pulmonary oedema) may set in after several hours/days. Call an ambulance immediately.

INGESTION

Thoroughly rinse the mouth with water. Get medical attention if any discomfort continues.

SKIN CONTACT

Wash skin thoroughly with soap and water. Remove contaminated clothing. Immediately consult a doctor.

EYE CONTACT

Rinse immediately with plenty of water. Hold eyelids apart. Contact physician.

BURNS

Immediately rinse with water. Not translated to English! Call an ambulance immediately. Continue rinsing during the journey to the doctor.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

5 Fire-fighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA:

Can be extinguished with water mist, powder, alcohol-resistant foam or carbon dioxide.

SAFETY DATA SHEET

SILVERLOD S 55 202330205

Last changed: 12/06/2012

Internal No: 202330205

UNSUITABLE EXTINGUISHING MEDIA

Do not use a direct water jet.

5.2 Special hazards arising from the substance or mixture

SPECIAL HAZARDS

Formation of toxic gases if heated. In the event of a fire, irritating smoke is formed.

5.3 Advice for fire-fighters

ADVICE FOR FIREFIGHTERS

Containers close to fire should be removed or cooled with water. Use pressurized air mask if substance is involved in a fire. Do not allow extinguishing water or spillage to run out into the sewage system. Bank in and collect.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

PERSONAL PRECAUTIONS

In case of insufficient ventilation, wear suitable respiratory equipment. Avoid generation and spreading of dust.

6.2 Environmental precautions

ENVIRONMENTAL PRECAUTIONS

Runoff or release to sewer, waterway or ground is forbidden.

6.3 Methods and material for containment and cleaning up

METHODS AND MATERIAL

Place in a suitable container for refuse treatment according to applicable regulations.

6.4 Reference to other sections

7 Handling and Storage

7.1 Precautions for safe handling

PRECAUTION FOR SAFE HANDLING

Avoid exposure. Mechanical ventilation or local exhaust ventilation may be required. Avoid contact with the skin and eyes. Wash your hands thoroughly after handling and before eating or smoking.

7.2 Conditions for safe storage, including any incompatibilities

CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

Keep in original container. Keep container tightly closed and in a well-ventilated place. Avoid contact with oxidizing substances.

7.3 Specific end uses

8 Exposure controls / Personal protection

8.1 Control parameters

SAFETY DATA SHEET

SILVERLOD S 55 202330205

Last changed: 12/06/2012

Internal No: 202330205

OEL value

Ingredient name	CAS no.	Range	ppm	mg/m3	Year	Notification
Silver	7440-22-4	15 min.				
Silver	7440-22-4	8 h		0,1	2007	
2-Metoxi-1-metyletylacetat	108-65-8	15 min.	77	400		
2-Metoxi-1-metyletylacetat	108-65-8	8 h	50	250		

R=Toxic for reproduction, H=Skin absorption, K=Carcinogenic, A=Sensitising, T=Upper limit, M=Mutagenic

8.2 Exposure controls

EYE PROTECTION

Use approved safety goggles or face shield.

SKIN PROTECTION

Not translated to English

HAND PROTECTION

No specific information on arm/hand protection, but gloves may still be necessary.

RESPIRATORY PROTECTION

In case of insufficient ventilation, wear suitable respiratory equipment.

9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

PHYSICAL STATE Non-dangerous goods.

ODOUR Odour-free.

Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	No data		
Melting point	No data		
Freezing point	No data		
Initial boiling point and boiling range	No data		
Flash point	No data		
Evaporation rate	No data		
Flammability (solid, gas)	No data		
Flammability limits	No data		
Explosion limits	No data		
Vapour pressure	No data		
Vapour density	No data		
Relative density	No data		
Partition coefficient	No data		
Auto-ignition temprature	No data		
Decomposition temprature	No data		
Viscosity	No data		

9.2 Other safety information

Note no.	Comments
----------	----------

10 Stability and Reactivity

10.1 Reactivity

10.2 Chemical stability

SAFETY DATA SHEET

SILVERLOD S 55 202330205

Last changed: 12/06/2012

Internal No: 202330205

CHEMICAL STABILITY

Stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

CONDITIONS TO AVOID

Not translated to English Avoid contact with strong oxidisers.

10.5 Incompatible materials

10.6 Hazardous decomposition products:

11 Toxicological information

11.1 Toxicological effects

ACUTE TOXICITY - ORAL

May be dangerous if ingested. May cause nausea, dizziness and vomiting.

ACUTE TOXICITY - INHALATION

May cause headache, dizziness, tiredness and nausea. Dust may irritate respiratory system.

SKIN CORROSION/IRRITATION

Not translated to English

SERIOUS EYE DAMAGE/IRRITATION

Not translated to English

OTHER TOXICOLOGICAL INFORMATION

Not translated to English

12 Ecological information

12.1 Toxicity

ECOTOXICITY

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

DEGRADABILITY

Not biodegradable.

12.3 Bioaccumulative potential

ACCUMULATION

Contains component/components that can be bioaccumulated.

12.4 Mobility in soil

MOBILITY

Insoluble in water. Not translated to English

12.5 Results of PBT and vPvB assessment

SAFETY DATA SHEET

SILVERLOD S 55 202330205

Last changed: 12/06/2012

Internal No: 202330205

12.6 Other adverse effects

13 Disposal considerations

13.1 Waste treatment methods

GENERAL REGULATIONS

Treat as dangerous waste. Not translated to English

CATEGORY OF WASTE

Not translated to English

14 Transport information

Classified as Dangerous Goods: **No**

Land transport (ADR/RID)

14.1 UN-No.	Not applicable.	14.4 Packing group	Not applicable.
14.2 Proper Shipping Name	Not applicable.	14.5 Environmental hazards	Not applicable.
14.3 Class(es)	Not applicable.		
Hazard label(s)	Not applicable.		
Hazard ID:	Not applicable.	Tunnel restriction code	Not applicable.

Inland water ways transport (ADN)

14.1 UN-No.	Not applicable.	14.4 Packing group	Not applicable.
14.2 Proper Shipping Name	Not applicable.	14.5 Environmental hazards	Not applicable.
14.3 Class(es)	Not applicable.		
Environmentally hazardous in tank-vessels	Not applicable.		

Sea transport (IMDG)

14.1 UN-No.	Not applicable.	14.4 Packing group	Not applicable.
14.2 Proper Shipping Name	Not applicable.	14.5 Environmental hazards	Not applicable.
14.3 Class(es)	Not applicable.		
Sub Risk:	Not applicable.		
IMDG Code segregation group	Not applicable.		
Marine pollutant	Not applicable.		
EMS:	Not applicable.		

SAFETY DATA SHEET

SILVERLOD S 55 202330205

Last changed: 12/06/2012

Internal No: 202330205

Air transport (ICAO-TI / IATA-DGR)

14.1 UN-No.	Not applicable.	14.4 Packing group	Not applicable.
14.2 Proper Shipping Name	Not applicable.	14.5 Environmental hazards	Not applicable.
14.3 Class(es)	Not applicable.		
Hazard label(s)	Not applicable.		

15 Regulatory information

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

PROVISIONS

Not translated to EnglishNot translated to English

15.2 Chemical Safety Assessment

16 Other information

LIST OF RELEVANT R-PHRASES

R10	Flammable.
R20/22	Harmful by inhalation and if swallowed.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

LIST OF RELEVANT H-STATEMENTS

H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.
H413	May cause long lasting harmful effects to aquatic life.