

## SAFETY DATA SHEET

SILVERLOD S 55 202330213

Last changed: 12/06/2012

Internal No: 202330213

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

#### 1.1 Product identifier

Trade name / designation SILVERLOD S 55 202330213

#### 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 202330213**

Last changed: 12/06/2012

Internal No: 202330213

### 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 202330213

Last changed: 12/06/2012

Internal No: 202330213

### 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 INCOMPATIBILITIES

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 202330213

Last changed: 12/06/2012

Internal No: 202330213

### 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 202330213

Last changed: 12/06/2012

Internal No: 202330213

### 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 202330213

Last changed: 12/06/2012

Internal No: 202330213

### 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 202330213**

Last changed: 12/06/2012

Internal No: 202330213

### Air transport (ICAO-TI / IATA-DGR)

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