

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

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

#### 1.1 Product identifier

Trade name : SILVERSHINE S 1500

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

This information is not available.

#### 1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH  
Guentersthal 4  
91235 Hartenstein  
Telephone : +499152770  
Telefax : +499152777008  
E-mail address : msds.eckart@altana.com  
Responsible/issuing person

#### 1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:  
From outside US: : (001) 352-323-3500  
(First call in English, response in your language is possible)  
US & Canada (toll free) : 1-800-5355-053

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids , Category 3 H226: Flammable liquid and vapour.  
Specific target organ toxicity - single H336: May cause drowsiness or dizziness.  
exposure , Category 3, Central nervous  
system

##### Classification (67/548/EEC, 1999/45/EC)

Flammable R10: Flammable.  
R67: Vapours may cause drowsiness and  
dizziness.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006





## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H226 H336	Flammable liquid and vapour. May cause drowsiness or dizziness.
Precautionary statements	:	<b>Prevention:</b> P210 P261	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
		<b>Response:</b> P303 + P361 + P353 P312	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a POISON CENTER or doctor/ physician if you feel unwell.
		P370 + P378 <b>Storage:</b> P403 + P233	In case of fire: Use for extinction: Dry sand. Store in a well-ventilated place. Keep container tightly closed.

Hazardous components which must be listed on the label:  
107-98-2                      1-methoxypropan-2-ol

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
aluminium	7429-90-5 231-072-3 01-2119529243-45	F; R11	Flam. Sol. 1; H228	>= 20 - < 25

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

2-methoxypropanol	1589-47-5 216-455-5	R10 Repr.Cat.2; R61 Xi; R37/38-R41	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 1B; H360D STOT SE 3; H335	< 0.3
WEL substance :				
1-methoxypropan-2-ol	107-98-2 203-539-1	R10 R67	Flam. Liq. 3; H226 STOT SE 3; H336	>= 50 - <= 100

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 : Move the victim to fresh air.  
Do not leave the victim unattended.
- Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.
- Wash off immediately with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- Immediately flush eye(s) with plenty of water.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

Symptoms : No information available.

Risks : No information available.

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

Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry sand, Special powder against metal fire

Unsuitable extinguishing media : ABC powder, Carbon dioxide (CO<sub>2</sub>), Water, Foam

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Evacuate personnel to safe areas.

### 6.2 Environmental precautions

**SILVERSHINE S 1500**

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Use mechanical handling equipment.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Do not flush with water.

**6.4 Reference to other sections**

For personal protection see section 8.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Wash hands before breaks and at the end of workday.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions. Electrical installations / working

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

materials must comply with the technological safety standards.

Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Keep away from oxidising agents and strongly acid or alkaline materials. Never allow product to get in contact with water during storage. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
1-methoxypropan-2-ol	107-98-2	STEL	150 ppm 568 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skin Indicative			
1-methoxypropan-2-ol	107-98-2	TWA	100 ppm 375 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skin Indicative			
1-	107-98-2	TWA	100 ppm	2005-04-06	GB EH40

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

methoxypropa n-2-ol			375 mg/m <sup>3</sup>		
Further information		Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
1- methoxypropa n-2-ol	107-98-2	STEL	150 ppm 560 mg/m <sup>3</sup>	2005-04-06	GB EH40
Further information		Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	TWA (Inhalable)	10 mg/m <sup>3</sup>	2011-12-01	GB EH40
Further information		The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
aluminium	7429-90-5	TWA (Respirable)	4 mg/m <sup>3</sup>	2011-12-01	GB EH40
Further information		The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
aluminium	7429-90-5	TWA (Inhalable)	10 mg/m <sup>3</sup>	2005-04-06	GB EH40
Further information		For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour			

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

		<p>TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</p>			
aluminium	7429-90-5	TWA (Respirable)	4 mg/m <sup>3</sup>	2005-04-06	GB EH40
Further information		<p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m<sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m<sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</p>			



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

**DNEL:**

1-methoxypropan-2-ol (107-98-2)

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: short term – local effects  
Value: 553.5 mg/m<sup>3</sup>

**DNEL:**

1-methoxypropan-2-ol (107-98-2)

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: long term – systemic effects  
Value: 50.6 mg/kg

**DNEL:**

1-methoxypropan-2-ol (107-98-2)

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: long term – systemic effects  
Value: 369 mg/m<sup>3</sup>

**DNEL:**

1-methoxypropan-2-ol (107-98-2)

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: long term – systemic effects  
Value: 3.3 mg/kg

**DNEL:**

1-methoxypropan-2-ol (107-98-2)

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: long term – systemic effects  
Value: 18.1 mg/kg

**DNEL:**

1-methoxypropan-2-ol (107-98-2)

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: long term – systemic effects  
Value: 43.9 mg/m<sup>3</sup>

**PNEC:**

1-methoxypropan-2-ol (107-98-2)

:  
Fresh water  
Value: 10 mg/l

**PNEC:**

1-methoxypropan-2-ol (107-98-2)

:  
Marine water  
Value: 1 mg/l

**PNEC:**

1-methoxypropan-2-ol (107-98-2)

:  
STP  
Value: 100 mg/l

**SILVERSHINE S 1500**

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

**8.2 Exposure controls****Personal protective equipment**

- Eye protection : Goggles
- : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.
- : In the case of vapour formation use a respirator with an approved filter.

**Environmental exposure controls**

- General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- :
- Water :
- : The product should not be allowed to enter drains, water courses or the soil.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

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Appearance	: viscous
Colour	: silver
Odour	: characteristic
pH	: no data available
Freezing point	: no data available
Boiling point/boiling range	: 120 °C
Flash point	: 35 °C
Bulk density	: no data available
Flammability (solid, gas)	: no data available
Auto-flammability	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Density	: 1.4 g/cm <sup>3</sup>
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Flow time	: no data available

### 9.2 Other information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.

Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents

### 10.6 Hazardous decomposition products

Other information : no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Components:

##### **7429-90-5 :**

Acute inhalation toxicity : LC50 rat: > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

no data available

### Respiratory or skin sensitisation

no data available

### Carcinogenicity

no data available

### Toxicity to reproduction/fertility

no data available

### Reprod.Tox./Development/Teratogenicity

no data available

### STOT - single exposure

no data available

### STOT - repeated exposure

no data available

### Aspiration toxicity

no data available

### Further information

#### Product

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

no data available

## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

#### Product:

Additional ecological information : no data available

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## SECTION 13: Disposal considerations

European Waste Catalogue : 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

### SECTION 14: Transport information

#### 14.1 UN number

ADR : 1263  
IMDG : 1263  
IATA : 1263

#### 14.2 Proper shipping name

ADR : PAINT  
IMDG : PAINT  
IATA : PAINT

#### 14.3 Transport hazard class

ADR : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

##### ADR

Packaging group : III  
Classification Code : F1  
Hazard identification No : 30  
Labels : 3  
Tunnel restriction code : (D/E)

##### IMDG

Packaging group : III  
Labels : 3  
EmS Number : F-E, S-E

##### IATA

Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packaging group : III

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

Labels : 3

### 14.5 Environmental hazards

### 14.6 Special precautions for user

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

## SECTION 15: Regulatory information

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

### 15.2 Chemical Safety Assessment

no data available

## SECTION 16: Other information

### Full text of R-Phrases

R10	Flammable.
R11	Highly flammable.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R61	May cause harm to the unborn child.
R67	Vapours may cause drowsiness and dizziness.

### Full text of H-Statements

H226	Flammable liquid and vapour.
H228	Flammable solid.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SILVERSHINE S 1500

Version 1.1

Revision Date 19.03.2014

Print Date 20.11.2018

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