

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

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

#### 1.1 Product identifier

Trade name : SILVERSHINE S 2100

Material number : 051980G60

### 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

#### NCEC:

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

#### **SECTION 2: Hazards identification**

#### **GHS Classification**

Specific target organ toxicity - single exposure, Category 3, Respiratory system, Central nervous system, H335H336 Long-term (chronic) aquatic hazard, Category 3, H412

Page 1 / 20 102000002373	A member of <b>C</b> ALTANA
--------------------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

**GHS-Labelling** 

Symbol(s) :

Signal word : Warning

Hazard statements : H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H412: Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:** 

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed. **Disposal:** 

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label

Identification CAS-No. Solvent naphtha (petroleum), light arom. 64742-95-6

Other hazards which do not result in classification

Combustible Solids

Page 2 / 20	102000002373	A member of <b>C</b> ALTANA



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

# **SECTION 3: Composition/information on ingredients**

Substance name : silvershine s 2100

Substance No. :

## **Hazardous components**

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium powder (stabilised)	7429-90-5 231-072-3	Flam. Sol.;1;H228	25 - 50
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48-9	Flam. Liq.;4;H227 Asp. Tox.;1;H304	25 - 50
Solvent naphtha (petroleum), light arom.	64742-95-6	Flam. Liq.;3;H226 Acute Tox.;5;H303 Acute Tox.;5;H313 STOT SE;3;H335, H336 Asp. Tox.;1;H304 Aquatic Chronic;2;H411	20 - 25

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.

Page 3 / 20	102000002373	A member of <b>C</b> ALTANA
-------------	--------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

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 : Wash off immediately with soap and plenty of water.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Flush eyes with water as a precaution.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

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

This information is not available.

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

This information is not available.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

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

Unsuitable extinguishing

media

: Water, Foam, ABC powder, Carbon dioxide (CO2)

Page 4 / 20	102000002373	A member of <b>C</b> ALTANA
		A member of CALIANA



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

#### 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

for firefighters

Special protective equipment : Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting 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.

#### **SECTION 6: Accidental release measures**

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

Personal precautions : Evacuate personnel to safe areas.

> Use personal protective equipment. Remove all sources of ignition. Use personal protective equipment.

Avoid dust formation.

#### 6.2 Environmental precautions

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.

Page 5 / 20	102000002373	A member of <b>C ALTANA</b>
-------------	--------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Do not flush with water.

Keep in suitable, closed containers for disposal.

#### 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

: Keep away from heat and sources of ignition. Avoid dust formation. Ensure adequate ventilation.

Avoid formation of respirable particles. 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. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and

national regulations.

Advice on protection against

fire and explosion

: Keep away from open flames, hot surfaces and sources of ignition. Earthing of containers and apparatuses is essential.

Avoid dust formation.

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

: Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking.

Keep container tightly closed in a dry and well-ventilated

Page 6 / 20 102000002373	A member of <b>O ALTANA</b>
--------------------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

place. Observe label precautions. Electrical installations / working materials must comply with the technological safety

standards.

Further information on storage conditions

: Protect from humidity and water. Do not allow to dry.

Advice on common storage : Do not store together with oxidizing and self-igniting products.

Never allow product to get in contact with water during storage. Keep away from oxidizing 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

#### Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	AGW (Inhalable	10 mg/m3	2014-04-02	DE TRGS 900
powder		fraction)			
(stabilised)					
Peak-limit: excursion		2;(II)			
factor (categor	y)				
Further informa	ation	Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
aluminium	7429-90-5	AGW (Alveolate	1,25 mg/m3	2014-04-02	DE TRGS 900

Page 7 / 20	102000002373	A member of <b>C</b> ALTANA
-------------	--------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

powder (stabilised)		fraction)			
Peak-limit: exc factor (categor		2;(II)			
Further informa	ation	Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48- 9	AGW	300 mg/m3	2017-11-30	DE TRGS 900
Peak-limit: exc		2;(II)			
Further informa	ation	Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also No. 2.9 of the TRGS 900		also No. 2.9	
Solvent naphtha (petroleum), light arom.	64742-95- 6	AGW	100 mg/m3	2009-02-16	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further informa	ation	Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also No. 2.9 of the TRGS 900			

# United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	

Page 8 / 20	102000002373	A member of <b>C</b> ALTANA
-------------	--------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

aluminium powder (stabilised)	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01
aluminium powder (stabilised)	7429-90-5	TWA (total)	10 mg/m3	2013-10-08
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m3	2012-07-01
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01
aluminium powder (stabilised)	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26
aluminium powder (stabilised)	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m3	2008-01-01
aluminium powder (stabilised)	7429-90-5	TWA	5 mg/m3	2005-09-01
aluminium powder (stabilised)	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01
aluminium powder	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

(stabilised)				
aluminium powder (stabilised)	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19
aluminium powder (stabilised)	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19
aluminium powder (stabilised)	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08
aluminium powder (stabilised)	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m3	2013-03-01
aluminium powder (stabilised)	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19
aluminium powder (stabilised)	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02
aluminium powder (stabilised)	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48- 9	TWA	500 ppm 2 000 mg/m3	2007-01-01
Naphtha (petroleum), hydrotreated heavy; Low boiling point	64742-48- 9	TWA	400 ppm 1 600 mg/m3	1989-01-19



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

ydrogen treated naphtha					
Solvent naphtha (petroleum), light arom.	64742-95- 6	TWA	500 ppm 2 000 mg/m3	2007-01-01	
Solvent naphtha (petroleum), light arom.	64742-95- 6	TWA	200 mg/m3	2010-03-01	
Solvent naphtha (petroleum), light arom.	64742-95- 6	TWA	400 ppm 1 600 mg/m3	1989-01-19	

#### 8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Solvent-resistant gloves

Remarks : Take note of the information given by the producer concerning

permeability and break through times, and of special

workplace conditions (mechanical strain, duration of contact).

The exact break through time can be obtained from the protective glove producer and this has to be observed.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

Page 11 / 20	102000002373	A member of <b>C</b> ALTANA



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

Recommended preventive skin protection

Skin should be washed after contact.

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Long sleeved clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

: 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 dust or aerosol formation use respirator with an

approved filter.

Dust safety masks are recommended when the dust

concentration is more than 10 mg/m3.

#### **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.



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

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

Appearance : Pasty solid

Colour : silver

Odour : characteristic
pH : No data available
Freezing point : No data available

Boiling point/boiling range : 162 °C

Flash point : No data available
Bulk density : No data available
Flammability (solid, gas) : Combustible Solids

Auto-flammability : not auto-flammable
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Density : 1,1 - 1,5 g/cm3
Water solubility : No data available

Miscibility with water : immiscible

Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available

Page 13 / 20	102000002373	A member of <b>C ALTANA</b>



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

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
Explosive properties : Not explosive

#### 9.2 Other information

No data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with alkalis, acids, halogenes and oxidizing agents.

Contact with acids and alkalis may release hydrogen. Mixture reacts slowly with water resulting in evolution of

hydrogen.

Vapour/air-mixtures are explosive at intense warming.

Stable under recommended storage conditions.

#### 10.4 Conditions to avoid

Conditions to avoid : Do not allow to dry.

No data available

### 10.5 Incompatible materials

Page 14 / 20	102000002373	A member of <b>C ALTANA</b>



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

Materials to avoid : Acids

Bases

Oxidizing agents

Highly halogenated compounds

#### 10.6 Hazardous decomposition products

Hazardous decomposition

products

: No data available

Other information : No data available

#### **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Acute toxicity**

### **Components:**

Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha:

Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

Acute inhalation toxicity : LC50 Rat: Test atmosphere: vapour

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable

concentration.

Acute dermal toxicity : LD50 Rabbit: > 5 000 mg/kg

#### Solvent naphtha (petroleum), light arom. :

Page 15 / 20	102000002373	A member of <b>C</b> ALTANA



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

Acute oral toxicity : LD50 Rat: 3 492 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 3 160 mg/kg

#### Skin corrosion/irritation

No data available

# Serious eye damage/eye irritation

#### **Product**

Product dust may be irritating to eyes, skin and respiratory system.

# 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

A member of C ALTAN	Page 16 / 20	102000002373	A member of <b>C ALTANA</b>
---------------------	--------------	--------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

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

#### **Components:**

Solvent naphtha (petroleum), light arom. (64742-95-6):

**Ecotoxicology Assessment** 

Long-term (chronic) aquatic : Toxic to aquatic life with long lasting effects.

hazard

### 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

Page 17 / 20	102000002373	A member of <b>C</b> ALTANA



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

#### **Product:**

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life

with long lasting effects.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company. In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

In accordance with local and national regulations.



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

## **SECTION 14: Transport information**

14.1 UN number

14.2 Proper shipping name

14.3 Transport hazard class

14.4 Packing group

14.5 Environmental hazards

# 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

## 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

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

: Not applicable

Regulation (EC) No 850/2004 on persistent organic

pollutants

: Not applicable

Page 19 / 20	102000002373	A member of <b>O ALTANA</b>
--------------	--------------	-----------------------------



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **SILVERSHINE S 2100**

Version 3.0 Revision Date 05.12.2019 Print Date 25.02.2022

#### 15.2 Chemical safety assessment

No data available

### **SECTION 16: Other information**

#### **Full text of H-Statements**

H226 : Flammable liquid and vapour.

H227 : Combustible liquid. H228 : Flammable solid.

H303 : May be harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H313 : May be harmful in contact with skin.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.

H411 : Toxic to aquatic life with long lasting effects. H412 : Harmful to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.