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

# **SILVERSHINE 415 Aluminium Paste**

Version 4.0	Revision Date 10.08.2023	Print Date 11.08.2023

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

### **1.1 Product identifier**

Trade name	:	SILVERSHINE 415 Aluminium Paste
Material number	:	023547G60

#### 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**

: Long-term (chronic) aquatic hazard, Category 3, H412

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## **GHS-Labelling**

Hazard statements	:	H412: Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:P273Avoid release to the environment.Disposal:P501Dispose of contents/ container to an approved waste disposal plant.

### Hazardous components which must be listed on the label

:

### Other hazards which do not result in classification

**Combustible Solids** 

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

Substance No.

## Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification labelling	and Concentrati	on[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;	H228 50 - 100	
Naphtha (petroleum), hydrotreated heavy	64742-48-9 918-481-9	Flam. Liq.;4;I Asp. Tox.;1;F		
Solvent naphtha (petroleum), light arom.	64742-95-6 918-668-5	Flam. Liq.;3;1 Acute Tox.;5 Acute Tox.;5 STOT SE;3;1 H336 Asp. Tox.;1;1	;H303 ;H313 H335,	
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		Aquatic Chronic;2;H411	
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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. No hazards which require special first aid measures.
If inhaled	: If unconscious, place in recovery position and seek medical advice.
	If symptoms persist, call a physician.
	If unconscious, place in recovery position and seek medical advice.
	If symptoms persist, call a physician.
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. Remove contact lenses.
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

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Suitable extinguishing media	sand, Special powder against me	etal fire
Unsuitable extinguishing media	ter, Foam, ABC powder, Carbon c	dioxide (CO2)
5.2 Special hazards arising from	stance or mixture	
Specific hazards during firefighting	not allow run-off from fire fighting irses.	to enter drains or water
5.3 Advice for firefighters		
Special protective equipment for firefighters	e personal protective equipment.	
	ar self-contained breathing apparates	atus for firefighting if
Further information	lect contaminated fire extinguishin st not be discharged into drains. F taminated fire extinguishing water ordance with local regulations.	ire residues and

## **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. Avoid dust formation.
6.2 Environmental precautions	
Environmental precautions	: The product should not be allowed to enter drains, water

courses or the soil.

Prevent product from entering drains.

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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).
	Sweep up and shovel.
	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	<ul> <li>Keep away from heat and sources of ignition. Avoid dust formation. Ensure adequate ventilation.</li> </ul>
	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
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.
	Normal measures for preventive fire protection.
Hygiene measures	: General industrial hygiene practice.
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.
	Electrical installations / working materials must comply with the technological safety standards.
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Further information on storage conditions	: Protect from humidity and water. Do n	ot 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.	

: No decomposition if stored and applied as directed.

## 7.3 Specific end use(s)

Other data

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 fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
	Peak-limit: excursion factor (category)				
Further inform	Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
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Naphtha (petroleum), hydrotreated heavy	64742-48- 9	AGW	300 mg/m3	2017-11-30	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further informa	ation		limit for hydrocarbo ssion for dangerous )		e also No. 2.9
Solvent naphtha (petroleum), light arom.	64742-95- 6	AGW	100 mg/m3	2009-02-16	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further informa	ation	Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also N of the TRGS 900		e also No. 2.9	

## United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01	
aluminium	7429-90-5	TWA (total)	10 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2012-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26	
aluminium	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
aluminium	7429-90-5	TWA (Respirable particulate	1 mg/m3	2008-01-01	
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		matter)		
aluminium	7429-90-5	TWA	5 mg/m3	2005-09-01
aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01
aluminium	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2013-03-01
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19
aluminium	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02
aluminium	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02
aluminium	7429-90-5	TWA (powder)	5 mg/m3	1989-01-19
Naphtha (petroleum), hydrotreated heavy	64742-48- 9	TWA	500 ppm 2 000 mg/m3	2007-01-01
Naphtha (petroleum), hydrotreated heavy	64742-48- 9	TWA	400 ppm 1 600 mg/m3	1989-01-19
Solvent naphtha (petroleum), light arom.	64742-95- 6	TWA	500 ppm 2 000 mg/m3	2007-01-01
Solvent	64742-95-	TWA	200 mg/m3	2010-03-01
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naphtha (petroleum), light arom.	6				
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	ent			
Eye protection	:	Safety glasses		
Hand protection				
Material	:	Solvent-resistant gloves		
Remarks	:	permeability and break through	tion given by the producer concerning prough times, and of special echanical strain, duration of contact).	
		The exact break through time constructive glove producer and the		
		Please observe the instructions breakthrough time which are pr gloves. Also take into considera conditions under which the proo danger of cuts, abrasion, and the	ovided by the supplier of the ation the specific local duct is used, such as the	
	Recommended preventive skin protection		protection	
		Skin should be washed after contact.		
		The suitability for a specific wor with the producers of the protect		
Skin and body protection	:	Long sleeved clothing		
		Safety shoes		
		Choose body protection accord concentration of the dangerous		
Respiratory protection	:	: Use suitable breathing protection if workplace concentration		
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requires.

Environmental exposure	e controls
General advice	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.</li> </ul>

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

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Water solubility	: insoluble	
Solubility(ies)		
Density	: 1,3 - 2,0 g/cm3	
Vapour pressure	: No data available	
Lower explosion limit	: No data available	
Upper explosion limit	: No data available	
Auto-flammability	: not auto-flammab	le
Flammability (solid, gas)	: Combustible Solid	ds
Bulk density	: No data available	
Flash point	: No data available	
Boiling point/boiling range	: 140 - 200 °C	
Freezing point	: No data available	
рН	: substance/mixture	e is non-soluble (in water)
Odour	: characteristic	
Colour	: silver	
Appearance	: Pasty solid	

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Miscibility with water	:	immiscible	
Solubility in other solvents	:	No data available	
Partition coefficient: n-octanc	l/water :	No data available	
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			
Self-Accelerating decomposition temperature (SADT)	: No data ava	ilable	
Self-heating substances	: No data ava	ilable	
Heat of combustion	: No data ava	ilable	
Impact sensitivity	: No data ava	ilable	
Surface tension	: No data ava	ilable	
Conductivity	: No data ava	ilable	
Sublimation point	: No data available		
Molecular weight	: No data ava	ilable	

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

## 10.1 Reactivity

No decomposition if stored and applied as directed.

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## **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	
Materials to avoid :	Acids Bases Oxidizing agents Highly halogenated compounds
10.6 Hazardaus decomposition pro	ducts

## **10.6 Hazardous decomposition products**

Other information : No data available

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

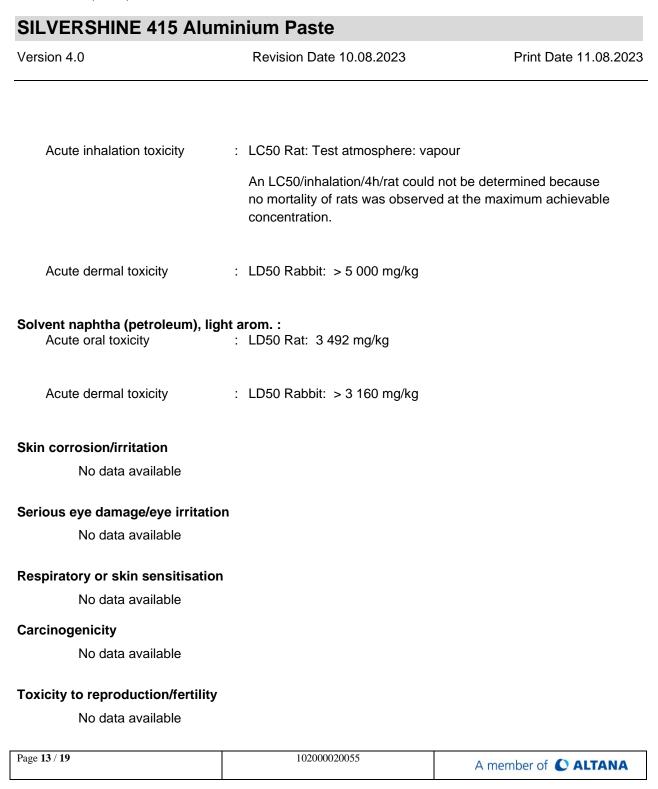
#### Acute toxicity

#### Components:

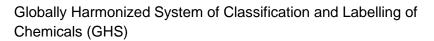
## Naphtha (petroleum), hydrotreated heavy : Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

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## 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**

No data available

## **SECTION 12: Ecological information**

## 12.1 Toxicity

## <u>Components:</u> 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

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## 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	:	An environmental hazard cannot be excluded in the event of
information		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.
Contaminated packaging	In accordance with local and national regulations. In accordance with local and national regulations.

## **SECTION 14: Transport information**

### 14.1 UN number

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## ADR

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

## IMDG

Not dangerous goods

## IATA

Not dangerous goods

## 14.2 Proper shipping name

#### ADR

Not dangerous goods

#### TDG

Not dangerous goods

#### CFR

Not dangerous goods

### IMDG

Not dangerous goods

### ΙΑΤΑ

Not dangerous goods

## 14.3 Transport hazard class

## ADR

Not dangerous goods

## TDG

Not dangerous goods

#### CFR

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Not dangerous goods

IMDG
Not dangerous goods
IATA
Not dangerous goods

14.4 Packing group
ADR
Not dangerous goods

TDG
Not dangerous goods

CFR
Not dangerous goods

IMDG
Not dangerous goods

## ΙΑΤΑ

Not dangerous goods

#### 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

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## **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). Regulation (EC) No 1005/2009 on substances that deplete the ozone layer Regulation (EU) 2019/1021 on persistent organic pollutants (recast) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

- : Not applicable
- : Not applicable
- : Not applicable
- : Banned and/or restricted (aluminium powder (stabilised)) (Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha) (Solvent naphtha (petroleum), light arom.)

#### 15.2 Chemical safety assessment

No data available

## **SECTION 16: Other information**

Full text of H-Stat	ements		
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.	
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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.

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