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

# SILVERSHINE 412 Aluminium Paste

Version 3.0	Revision Date 15.03.2024	Print Date 16.03.2024

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

#### **1.1 Product identifier**

Trade name	:	SILVERSHINE 412 Aluminium Paste
Material number	:	022579G60

#### 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 2, H411

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GHS-Labelling		
Symbol(s)		
Signal word	: Warning	
Hazard statements	: H335: May cause respiratory in H336: May cause drowsiness of H411: Toxic to aquatic life with	or dizziness.
Precautionary statements Hazardous components w	air and keep comfortable for br feel unwell. P391 Collect spillage. <b>Storage:</b> P403 + P233 Store in a well- tightly closed. P405 Store locked up. <b>Disposal:</b>	
Identification	CAS-No.	
Solvent naphtha (petroleum)	, light arom. 64742-95-6	

Combustible Solids

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

Substance No.

### Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	50 - 100
Solvent naphtha (petroleum), light arom.	64742-95-6 918-668-5	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	25 - 50
Naphtha (petroleum), hydrotreated heavy	64742-48-9 918-481-9	Flam. Liq.;4;H227 Asp. Tox.;1;H304	1 - 10

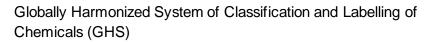
For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice If inhaled	<ul> <li>Move the victim to fresh air. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.</li> <li>If unconscious, place in recovery position and seek medical</li> </ul>	
	advice.	
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	lf symptoms persist, call a physician	
In case of skin contact In case of eye contact	<ul> <li>Wash off immediately with soap and</li> <li>Immediately flush eye(s) with plenty</li> <li>Flush eyes with water as a precautic</li> <li>Remove contact lenses.</li> </ul>	plenty of water. of water.
If swallowed	<ul> <li>Keep eye wide open while rinsing.</li> <li>Keep respiratory tract clear.</li> <li>Do not give milk or alcoholic beverage</li> <li>Never give anything by mouth to an If symptoms persist, call a physician</li> </ul>	unconscious person.

#### 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)

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

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

#### 5.3 Advice for firefighters

Special protective equipment	: Use personal protective equipment.
forfirefighters	

Wear self-contained breathing apparatus for firefighting if necessary.

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Further information	: Collect contaminated fire extinguishi must not be discharged into drains. F contaminated fire extinguishing wate accordance with local regulations.	Fire residues and

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

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

Personal precautions	<ul> <li>Evacuate personnel to safe areas.</li> <li>Use personal protective equipment.</li> <li>Remove all sources of ignition.</li> </ul>
	Use personal protective equipment. Avoid dust formation.

#### 6.2 Environmental precautions

General advice	: The product should not be allowed to enter drains, water courses or the soil.
	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.
This is former at a state of a second state in	-

This information is not available.

#### 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).
	Do not flush with water.
	Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling	3		
Advice on safe handling	:	Keep away from heat and source formation. Ensure adequate ver	
		Avoid formation of respirable pay vapours/dust. Avoid exposure - before use. For personal protect eating and drinking should be p area. Provide sufficient air exch rooms. Dispose of rinse water in national regulations.	obtain special instructions option see section 8. Smoking, prohibited in the application nange and/or exhaust in work
Advice on protection against fire and explosion	:	Keep away from open flames, h ignition. Earthing of containers	
		Avoid dust formation.	
Hygiene measures	:	Wash hands before breaks and	at the end of workday.
7.2 Conditions for safe storage, i	incl	uding any incompatibilities	
Requirements for storage areas and containers	:	Store in original container. Keep cool, well-ventilated place. Keep use. Keep away from sources of	p container closed when not in
		Keep container tightly closed in place. Observe label precaution working materials must comply standards.	ns. Electrical installations /
Further information on storage conditions	:	Protect from humidity and water	r. Do not allow to dry.
Advice on common storage	:	Do not store together with oxidi Never allow product to get in co	
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	storage. Keep away from oxidizing a and strongly acid materials in order t reactions.	
Other data	: No decomposition if stored and appl	lied as directed.

#### 7.3 Specific end use(s)

This information is not available.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### Germany:

Page

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: exc factor (catego		2;(II)			
Further inform	ation	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: exc factor (catego		2;(II)			
Further inform	ation		ompliance with the no risk of harming t	•	cal tolerance
Solvent naphtha (petroleum), light arom.	64742-95- 6	AGW	100 mg/m3	2009-02-16	DE TRGS 900
Peak-limit: excursion 2;(II) factor (category)					
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Further inform	ation	tion Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also No. 2.9 of the TRGS 900			e also No. 2.9
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 inform	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	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 matter)	1 mg/m3	2008-01-01	
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	
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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	
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	
Naphtha (petroleum), hydrotreated heavy	64742-48- 9	TWA	500 ppm 2 000 mg/m3	2007-01-01	
Naphtha (petroleum), hydrotreated	64742-48- 9	TWA	400 ppm 1 600 mg/m3	1989-01-19	
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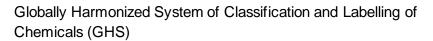
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heavy					
Exposure controls					
Personal protective equip	nent				
Eye protection	: 5	afety glasses			
Hand protection					
Material	: 5	olvent-resistant glov	ves		
Remarks	P V F B g c d F S T V T V T V	ake note of the info ermeability and brea- orkplace conditions he exact break throu- rotective glove proc- lease observe the in reakthrough time whi loves. Also take into- onditions under whi anger of cuts, abras- ecommended preve- kin should be washe he suitability for a s- ith the producers of he suitability for a s- ith the producers of ong slowed clothin	ak through times, (mechanical stra- ugh time can be of lucer and this has nstructions regard nich are provided o consideration the ch the product is sion, and the contact. pecific workplace the protective gl pecific workplace the protective gl	and of special ain, duration of cont obtained from the to be observed. ding permeability and by the supplier of the e specific local used, such as the tact time. tion e should be discuss oves. e should be discuss	tact). nd the
Skin and body protection	5 0 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ong sleeved clothing afety shoes hoose body protect oncentration of the hoose body protect oncentration of the	tion according to dangerous substa tion according to dangerous substa	ance at the work pla the amount and ance at the work pla	ace.
Respiratory protection		se suitable breathin equires.	g protection if wo	orkplace concentrat	ion

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	In the case of dust or aerosol formation u approved filter.	se respirator with an	
	Dust safety masks are recommended when the dust concentration is more than 10 mg/m3.		
Environmental exposure cont	rols		
<ul> <li>General advice</li> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Prevent product from entering drains.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>If the product contaminates rivers and lakes or drains intrespective authorities.</li> </ul>		to do so.	

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

#### 9.1 Information on basic physical and chemical properties

Appearance	: Pasty solid	
Colour	: silver	
Odour	: characteristic	
рН	: substance/mixture is non-soluble (in water)	
Freezing point	: No data available	
Boiling point/boiling range	: 140 - 200 °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	
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Density	: 1,3 - 2,0 g/cm3	
Solubility(ies)		
Water solubility	: insoluble	
Miscibility with water	: immiscible	
Solubility in other solvents	: No data available	
Partition coefficient: n-octano	I/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 available	
Self-heating substances	: No data available	
Heat of combustion	: No data available	
Impact sensitivity	: No data available	
Surface tension	: No data available	
Conductivity	: No data available	
Sublimation point	: No data available	
Molecular weight	: 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

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	<ul> <li>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.</li> </ul>
	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 Hazardous decomposition products**

Other information

: No data available

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

#### 11.1 Information on toxicological effects

#### Acute toxicity

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Components:		
Solvent naphtha (petroleum),	-	
Acute oral toxicity	: LD50 Rat: 3 492 mg/kg	
Acute dermal toxicity	: LD50 Rabbit: >3 160 mg/kg	
Naphtha (petroleum), hydrotre	ated heavy :	
Acute oral toxicity	: LD50 Rat: > 5 000 mg/kg	
Acute inhalation toxicity	: LC50 Rat: Test atmosphere: vapour	
	An LC50/inhalation/4h/rat could not b	e determined because
	no mortality of rats was observed at t	he maximum achievable
	concentration.	
Acute dermal toxicity	: LD50 Rabbit: >5 000 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

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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**

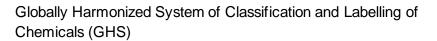
#### Product

No data available

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

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### <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

#### 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., Toxic to aquatic life with
	long lasting effects.

### **SECTION 13: Disposal considerations**

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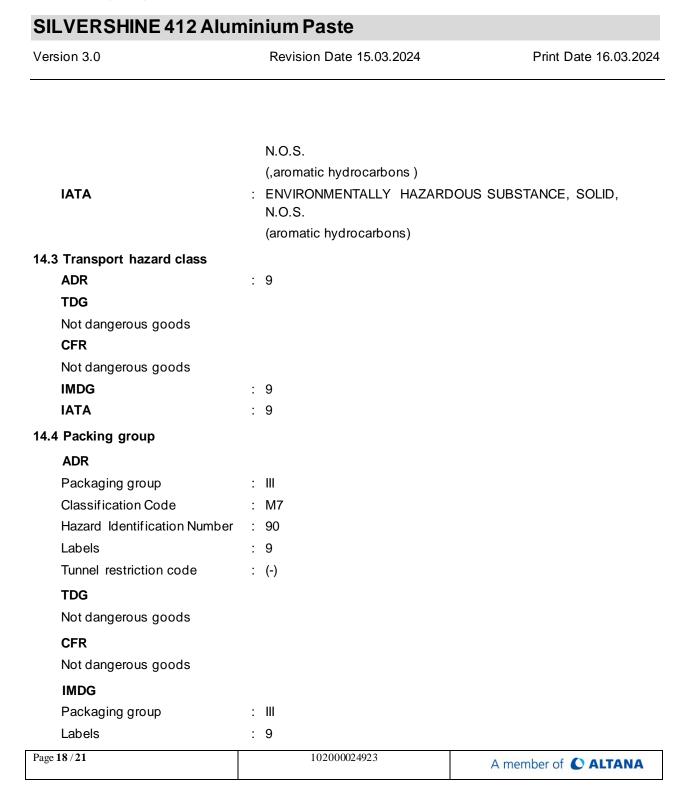
### 13.1 Waste treatment methods

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.

## **SECTION 14: Transport information**

14.1 UN number		
ADR	: 3077	
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG	: 3077	
ΙΑΤΑ	: 3077	
14.2 Proper shipping name		
ADR	: ENVIRONMENTALLY HAZAR N.O.S. (aromatic hydrocarbons)	DOUS SUBSTANCE, SOLID,
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG	: ENVIRONMENTALLY HAZAR	DOUS SUBSTANCE, SOLID,
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EmS Code IATA	: F-A, S-F	
Packing instruction (cargo aircraft)	: 956	
Packing instruction (passenger aircraft)	: 956	
Packing instruction (LQ)	: Y956	
Packaging group	: 111	
Labels	: 9	
14.5 Environmental hazards		
IMDG	: Marine pollutant	
ADR	: Environmentally hazardous	

### 14.6 Special precautions for user

#### IMDG Code- segregation group:

: IMDG Code segregation group 7 - Heavy metals and their salts

For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

#### 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 : Not applicable

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Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation (Annex XIV) 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)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Banned and/or restricted (aluminium powder (stabilised)) (Solvent naphtha (petroleum), light arom.) (Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen</li> </ul>

#### 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.

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

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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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