

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

## STAPA METALLUX 4060 Aluminium Paste

Version 2.0 Revision Date 07.12.2019 Print Date 24.01.2022

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

#### 1.1 Product identifier

Trade name : STAPA METALLUX 4060 Aluminium Paste

Material number : 052839G60

### 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:** 

P273 Avoid release to the environment.

Disposal:

P501 Dispose 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 name : METALLUX 4060

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	50 - 100
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48-9	Flam. Liq.;4;H227 Asp. Tox.;1;H304	10 - 20
Solvent naphtha (petroleum), light arom.	64742-95-6	Flam. Liq.;3;H226 Acute Tox.;5;H303 Acute Tox.;5;H313 STOT SE;3;H335,	10 - 20

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	H336 Asp. Tox.;1;H304 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.

Do not leave the victim unattended.

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.

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 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.

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#### 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

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.

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Avoid dust formation.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

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 : Keep away from heat and sources of ignition. Avoid dust

formation. Ensure adequate ventilation.

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.

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### 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.

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 powder (stabilised)	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion 2;(II)					

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factor (categor	ry)				
Further information		Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
aluminium powder (stabilised)	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information			dangerous substar ounds at the work p on).		
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: excursion factor (category)		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also No. 2.9 of the TRGS 900			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: exc factor (categor		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also No. 2.9 of the TRGS 900			

## United States of America (USA):

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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	
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	

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aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01
powder				
(stabilised)		77444 ( ) 11	- / 0	2011 27 21
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01
powder (stabilised)		maction)		
aluminium	7429-90-5	TWA (Total	15 mg/m3	1989-01-19
powder	7429-90-5	dust)	13 1119/1113	1909-01-19
(stabilised)		,		
aluminium	7429-90-5	TWA (respirable	5 mg/m3	1989-01-19
powder	0 00 0	dust fraction)	J. J.	
(stabilised)				
aluminium	7429-90-5	TWA (welding	5 mg/m3	2013-10-08
powder		fumes)		
(stabilised)				
aluminium	7429-90-5	TWA (pyro	5 mg/m3	2013-10-08
powder		powders)		
(stabilised)	7400 00 5	TWA	4 / 0	0040 00 04
aluminium	7429-90-5	(Respirable	1 mg/m3	2013-03-01
powder (stabilised)		fraction)		
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19
powder	, 120 00 0			
(stabilised)				
aluminium	7429-90-5	PEL (Welding	5 mg/m3	2017-10-02
powder		fumes)		
(stabilised)				
aluminium	7429-90-5	PEL (Pyro	5 mg/m3	2017-10-02
powder		powders)		
(stabilised)				
Naphtha	64742-48-	TWA	500 ppm 2 000 mg/m3	2007-01-01
(petroleum), hydrotreated	9		2 000 mg/ms	
heavy; Low				
boiling point				
ydrogen				
treated				
naphtha				



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

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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.

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.

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.

Respiratory protection : Use suitable breathing protection if workplace concentration

requires.

#### **Environmental exposure controls**

General advice

Prevent product from entering drains.

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.

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

### 9.1 Information on basic physical and chemical properties

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Appearance : Pasty solid

Colour : silver

Odour : characteristic
pH : No data available
Freezing point : No data available
Boiling point/boiling range : No data available
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 : 1,3 - 2,0 g/cm3

Solubility(ies)

Water solubility : insoluble
Miscibility with water : immiscible

Solubility in other solvents No data available Partition coefficient: n-octanol/water : No data available : No data available Ignition temperature Thermal decomposition : No data available Viscosity, dynamic No data available Viscosity, kinematic : No data available Flow time No data available Explosive properties Not explosive

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#### 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

Materials to avoid : Acids

Bases

Oxidizing agents

Highly halogenated compounds

### 10.6 Hazardous decomposition products

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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. :

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

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

### Skin corrosion/irritation

No data available

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### Serious eye damage/eye irritation

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**

No data available

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

### 12.1 Toxicity

hazard

### **Components:**

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

**Ecotoxicology Assessment** 

Long-term (chronic) aquatic

IC

: Toxic to aquatic life with long lasting effects.

# 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

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

with long lasting effects.

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

#### 13.1 Waste treatment methods

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

courses or the soil.

In accordance with local and national regulations.

Contaminated packaging : In accordance with local and national regulations.

### **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

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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).

: 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

### 15.2 Chemical safety assessment

No data available

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

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

H226	Flammable liquid and vapour.
11220	i iaiiiiiabie iiquiu aiiu vapoui.

H227 : Combustible liquid. H228 : Flammable solid.

H303 : May be harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H313
H335
May be harmful in contact with skin.
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.

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