

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STAPA METALLUX 2192 Aluminium Paste

Version 4.0      Revision Date: 16.05.2023      SDS Number: 102000030583      Print Date: 16.04.2024  
Date of first issue: 27.09.2018

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

#### 1.1 Product identifier

Trade name : STAPA METALLUX 2192 Aluminium Paste  
Product code : 057652G60

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

Use of the Substance/Mixture : Colouring agents, pigments

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

Company : ECKART Suisse SA  
Route de la Brasserie 2  
1963 Vétroz  
Telephone : +410273454800  
Telefax : +410273454859  
E-mail address of person responsible for the SDS : [msds.eckart@altana.com](mailto:msds.eckart@altana.com)

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)  
Call and response in your language is possible.  
Contract no.: ECKART29003-NCEC.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Long-term (chronic) aquatic hazard, Category 3      H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

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

Hazard statements : H412      Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066      Repeated exposure may cause skin dryness or cracking.

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Precautionary statements :      **Prevention:**  
P273      Avoid release to the environment.  
**Disposal:**  
P501      Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

Combustible Solids

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number          | ClassificationREGUL<br>ATION (EC) No<br>1272/2008  | Concentration<br>(% w/w) |
|--|--|--|--------------------------|
| aluminium powder (stabilised)  | 7429-90-5<br><br>231-072-3<br>013-002-00-1<br>01-2119529243-45 | Flam. Sol. 1; H228   | >= 50 - <= 100           |
| Naphtha (petroleum),<br>hydrotreated heavy; Low boiling<br>point ydrogen treated naphtha | 64742-48-9<br><br>918-481-9<br>01-2119457273-39                | Asp. Tox. 1; H304<br>EUH066  | >= 25 - < 50             |
| Solvent naphtha (petroleum), light<br>arom.  | 64742-95-6<br><br>918-668-5<br>01-2119455851-35                | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>STOT SE 3; H335<br>(Respiratory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411<br>EUH066 | >= 2.5 - < 10            |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move the victim to fresh air.

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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 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

- Risks : Repeated exposure may cause skin dryness or cracking.

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

This information is not available.

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### 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 (CO<sub>2</sub>)

#### 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 : 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.
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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### 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.  
If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and material 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.

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### 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.

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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.

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.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components   | CAS-No.   | Value type (Form of exposure) | Control parameters   | Basis   |
|--|-----------|-------------------------------|----------------------|---------|
| aluminium powder (stabilised)  | 7429-90-5 | TWA (Inhalable)               | 10 mg/m <sup>3</sup> | GB EH40 |
|  |           | TWA (Respirable fraction)     | 4 mg/m <sup>3</sup>  | GB EH40 |
|  |           | TWA (inhalable dust)          | 10 mg/m <sup>3</sup> | 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 MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., 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 to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., 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 |           |                               |                      |         |

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|                       |   |                       |                     |         |
|-----------------------|---|-----------------------|---------------------|---------|
|                       | <p>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 MDHS14/4., 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 limit should be used.</p>  |                       |                     |         |
|                       | <table border="1"> <tr> <td>TWA (Respirable dust)</td> <td>4 mg/m<sup>3</sup></td> <td>GB EH40</td> </tr> </table>  | TWA (Respirable dust) | 4 mg/m <sup>3</sup> | GB EH40 |
| TWA (Respirable dust) | 4 mg/m <sup>3</sup>   | GB EH40               |                     |         |
|                       | <p>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 MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., 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 to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., 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 MDHS14/4., 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 limit should be used.</p> |                       |                     |         |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name  | End Use   | Exposure routes | Potential health effects   | Value                  |
|---|-----------|-----------------|----------------------------|------------------------|
| aluminium powder (stabilised)   | Workers   | Inhalation      | Long-term systemic effects | 3.72 mg/m <sup>3</sup> |
|   | Workers   | Inhalation      | Long-term local effects    | 3.72 mg/m <sup>3</sup> |
|   | Consumers | Oral            | Long-term systemic effects | 3.95 mg/kg             |
| Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha | Workers   | Inhalation      | Acute systemic effects     | 1500 mg/m <sup>3</sup> |
|   | Workers   | Skin contact    | Long-term systemic effects | 300 mg/kg              |

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|  |           |              |                            |           |
|--|-----------|--------------|----------------------------|-----------|
|  | Consumers | Ingestion    | Long-term systemic effects | 300 mg/kg |
|  | Consumers | Skin contact | Long-term systemic effects | 300 mg/kg |
|  | Consumers | Inhalation   | Long-term systemic effects | 900 mg/m3 |
| Solvent naphtha (petroleum), light arom. | Workers   | Inhalation   | Long-term systemic effects | 150 mg/m3 |
|  | Workers   | Skin contact | Long-term systemic effects | 25 mg/kg  |
|  | Consumers | Skin contact | Long-term systemic effects | 11 mg/kg  |
|  | Consumers | Inhalation   | Long-term systemic effects | 32 mg/m3  |
|  | Consumers | Inhalation   | Long-term local effects    | 11 mg/kg  |
|  | Consumers | Ingestion    | Long-term systemic effects | 11 mg/kg  |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                | Environmental Compartment | Value       |
|-------------------------------|---------------------------|-------------|
| aluminium powder (stabilised) | Fresh water               | 0.0749 mg/l |
|                               | clarification plant       | 20 mg/l     |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face 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. 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.

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### SECTION 9: Physical and chemical properties

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

|  |   |   |
|--|---|---|
| Physical state                                   | : | Pasty solid                                 |
| Colour   | : | silver                                      |
| Odour  | : | characteristic                              |
| Odour Threshold                                  | : | No data available                           |
| Freezing point                                   | : | No data available                           |
| Boiling point/boiling range                      | : | 140 - 200 °C                                |
| Flammability                                     | : | Combustible Solids                          |
| Upper explosion limit / Upper flammability limit | : | No data available                           |
| Lower explosion limit / Lower flammability limit | : | No data available                           |
| Flash point                                      | : | No data available                           |
| Auto-ignition temperature                        | : | Not relevant                                |
| Decomposition temperature                        | : | No data available                           |
| pH   | : | substance/mixture is non-soluble (in water) |
| Viscosity, kinematic                             | : | No data available                           |
| Solubility(ies)                                  |   |   |
| Water solubility                                 | : | insoluble                                   |
| Solubility in other solvents                     | : | No data available                           |
| Partition coefficient: n-octanol/water           | : | No data available                           |
| Vapour pressure                                  | : | No data available                           |
| Relative density                                 | : | No data available                           |
| Density  | : | 1.3 - 2.0 g/cm <sup>3</sup>                 |
| Relative vapour density                          | : | No data available                           |
| Particle Size Distribution                       | : |   |



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### 9.2 Other information

Explosives : Not explosive  
Self-ignition : not auto-flammable  
Miscibility with water : immiscible

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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 : 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

This information is not available.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified based on available information.

#### Components:

aluminium powder (stabilised):

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Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

### **Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:**

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

Acute inhalation toxicity : LC50 (Rat): Test atmosphere: vapour  
Remarks: 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**

Repeated exposure may cause skin dryness or cracking.

### **Components:**

### **Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:**

Result : Repeated exposure may cause skin dryness or cracking.

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

Result : Repeated exposure may cause skin dryness or cracking.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

### **Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:**

Germ cell mutagenicity-Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

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

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

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

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

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

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **Components:**

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

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

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

May be fatal if swallowed and enters airways.

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

May be fatal if swallowed and enters airways.

## 11.2 Information on other hazards

### **Further information**

#### **Product:**

Remarks : No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

**Components:**

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

**Ecotoxicology Assessment**

Chronic aquatic toxicity : 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

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties

No data available

#### 12.7 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.

**Components:**

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

Additional ecological information : No data available

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### SECTION 13: Disposal considerations

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles  
European Waste Catalogue : 10 03 21 - other particulates and dust (including ball-mill dust)

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containing hazardous substances

### 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 or ID number

- ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.2 UN proper shipping name

- ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

- ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.4 Packing group

- ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA (Cargo) : Not regulated as a dangerous good  
IATA (Passenger) : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

- Remarks : Not classified as dangerous in the meaning of transport regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

|  |   |   |
|--|---|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered:<br>aluminium powder (stabilised) (Number on list 40)<br>Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha (Number on list 3)<br>Solvent naphtha (petroleum), light arom. (Number on list 3) |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation  | : | Not applicable  |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)                            | : | Not applicable  |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer  | : | Not applicable  |
| UK REACH List of substances subject to authorisation (Annex XIV)   | : | Not applicable  |

#### 15.2 Chemical safety assessment

No data available

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### SECTION 16: Other information

#### Full text of H-Statements

|        |   |   |
|--------|---|---|
| H226   | : | Flammable liquid and vapour.                          |
| H228   | : | Flammable solid.                                      |
| H304   | : | May be fatal if swallowed and enters airways.         |
| H335   | : | May cause respiratory irritation.                     |
| H336   | : | May cause drowsiness or dizziness.                    |
| H411   | : | Toxic to aquatic life with long lasting effects.      |
| EUH066 | : | Repeated exposure may cause skin dryness or cracking. |

#### Full text of other abbreviations

|                 |   |  |
|-----------------|---|--|
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard                     |
| Asp. Tox.       | : | Aspiration hazard                                      |
| Flam. Liq.      | : | Flammable liquids                                      |
| Flam. Sol.      | : | Flammable solids                                       |
| STOT SE         | : | Specific target organ toxicity - single exposure       |
| GB EH40         | : | UK. EH40 WEL - Workplace Exposure Limits               |
| GB EH40 / TWA   | : | Long-term exposure limit (8-hour TWA reference period) |

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STAPA METALLUX 2192 Aluminium Paste

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 16.04.2024          |
| 4.0     | 16.05.2023     | 102000030583 | Date of first issue: 27.09.2018 |

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aquatic Chronic 3                      H412

#### Classification procedure:

Calculation method

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.

GB / EN