

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

**STAPA HYDROXAL E 212 Aluminium Paste**

Version 1.0

Revision Date 10.10.2023

Print Date 11.10.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : STAPA HYDROXAL E 212 Aluminium Paste  
Material number : 026700KA0

**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**

Not a dangerous substance according to GHS.

**GHS-Labelling**

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Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

**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.<br>EINECS-No.  | Classification and<br>labelling  | Concentration[%] |
|--|------------------------|--|------------------|
| aluminium                                      | 7429-90-5<br>231-072-3 | Flam. Sol.;1;H228  | 50 - 100         |
| 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol | 95-38-5<br>202-414-9   | Acute Tox.;4;H302<br>;1C;H314<br>STOT RE;2;H373<br>Aquatic Acute;1;H400<br>Aquatic<br>Chronic;1;H410 | 3 - 5            |
| octylphosphonic acid                           | 4724-48-5<br>225-218-5 | Acute Tox.;4;H302<br>;1;H314<br>;1;H318<br>STOT RE;2;H373  | 1 - 3            |

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

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**SECTION 4: First aid measures****4.1 Description of first aid measures**

|                         |   |
|-------------------------|---|
| General advice          | : Move the victim to fresh air.<br>No hazards which require special first aid measures.   |
| If inhaled              | : If unconscious, place in recovery position and seek medical advice.<br>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.<br>Remove contact lenses.  |
| If swallowed            | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>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 | : ABC powder, Carbon dioxide (CO <sub>2</sub> ), Water, Foam |

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

|                                      |  |
|--------------------------------------|--|
| Specific hazards during firefighting | : Contact with water liberates extremely flammable gas (hydrogen). |
|--------------------------------------|--|

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### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## 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.  
Avoid dust formation.

### 6.2 Environmental precautions

- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
- 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.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : 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 away from sources of ignition  
- No smoking. Keep container closed when not in use.
- Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Keep away from oxidizing agents and strongly acid or alkaline materials. 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.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Germany:

| Components                              | CAS-No.   | Value type<br>(Form of exposure)  | Control parameters     | Update     | Basis       |
|---|-----------|---|------------------------|------------|-------------|
| aluminium                               | 7429-90-5 | AGW (Inhalable fraction)  | 10 mg/m <sup>3</sup>   | 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/m <sup>3</sup> | 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 |                        |            |             |

##### United States of America (USA):

| Components | CAS-No.   | Value type<br>(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/m <sup>3</sup>                 | 2013-10-08 |       |
| aluminium  | 7429-90-5 | TWA (total dust)                 | 15 mg/m <sup>3</sup>                | 2012-07-01 |       |
| aluminium  | 7429-90-5 | TWA (total)                      | 10 mg/m <sup>3</sup>                | 2013-10-08 |       |
| aluminium  | 7429-90-5 | TWA (respirable fraction)        | 5 mg/m <sup>3</sup>                 | 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/m <sup>3</sup>                | 2014-11-26 |       |
| aluminium  | 7429-90-5 | PEL (respirable)                 | 5 mg/m <sup>3</sup>                 | 2014-11-26 |       |

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|           |           |  |          |            |  |
|-----------|-----------|--|----------|------------|--|
| aluminium | 7429-90-5 | dust fraction)<br>TWA<br>(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<br>(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<br>(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 |  |

**8.2 Exposure controls****Personal protective equipment**

Eye protection : Goggles  
: Safety glasses

Respiratory protection : Use suitable breathing protection if workplace concentration

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requires.

**Environmental exposure controls**

- General advice : The product should not be allowed to enter drains, water courses or the soil.  
: If the product contaminates rivers and lakes or drains inform respective authorities.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                             |   |
|-----------------------------|---|
| Appearance                  | : Pasty solid                                 |
| Colour                      | : silver                                      |
| Odour                       | : characteristic                              |
| pH                          | : substance/mixture is non-soluble (in water) |
| Freezing point              | : No data available                           |
| Boiling point/boiling range | : 100 °C                                      |
| Flash point                 | : No data available                           |
| Bulk density                | : No data available                           |
| Flammability (solid, gas)   | : Combustible Solids                          |
| Auto-flammability           | : No data available                           |
| Upper explosion limit       | : No data available                           |
| Lower explosion limit       | : No data available                           |
| Vapour pressure             | : No data available                           |
| Density                     | : 1,3 - 2,0 g/cm <sup>3</sup>                 |
| Solubility(ies)             |   |
| Water solubility            | : insoluble                                   |
| Miscibility with water      | : immiscible                                  |



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

**9.2 Other information**

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 : Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

**10.4 Conditions to avoid**Conditions to avoid : Do not allow evaporation to dryness.  
No data available**10.5 Incompatible materials**Materials to avoid : Acids  
Bases  
Oxidizing agents

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**10.6 Hazardous decomposition products**

Other information : No data available

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Components:****2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol :**

Acute oral toxicity : The component/mixture is moderately toxic after single  
ingestion.

**octylphosphonic acid :**

Acute oral toxicity : LD50 Rat: 500 - 2 000 mg/kg

**Skin corrosion/irritation****Product**

Result: No skin irritation

Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation****Product**

Result: No eye irritation

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Based on available data, the classification criteria are not met.

**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****Product:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : This product has no known ecotoxicological effects.

Long-term (chronic) aquatic hazard : This product has no known ecotoxicological effects.

**Components:****2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5) :**

M-Factor : 10

**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very 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

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**12.6 Other adverse effects****Product:**

Additional ecological : No data available  
information

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : In accordance with local and national regulations.  
Contaminated packaging : Empty containers should be taken to an approved waste  
handling site for recycling or disposal.  
In accordance with local and national regulations.

**SECTION 14: Transport information****14.1 UN number****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

:

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**IATA** : Not permitted for transport

**14.2 Proper shipping name****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA** :  
Not permitted for transport

**14.3 Transport hazard class****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA** : Not permitted for transport

**14.4 Packing group****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

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**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA****(Cargo)** : Not permitted for transport**(Passenger)** : Not permitted for transport**14.5 Environmental hazards****14.6 Special precautions for user**

Due to the risk of hydrogen development we recommend to refrain from airfreighting this/these  
product(s).

**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  
REACH - List of substances subject to authorisation (Annex XIV) : Not applicable  
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable  
Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

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REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

: Banned and/or restricted  
(aluminium powder (stabilised))  
(2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol)  
(2-phenoxyethanol)

**15.2 Chemical safety assessment**

No data available

**SECTION 16: Other information****Full text of H-Statements**

|      |  |
|------|--|
| H228 | : Flammable solid.   |
| H302 | : Harmful if swallowed.  |
| H314 | : Causes severe skin burns and eye damage.                           |
| H318 | : Causes serious eye damage.   |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| H400 | : Very toxic to aquatic life.  |
| H410 | : Very 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 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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