

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

STAPA AC REFLEXAL 3432/85 Aluminum Paste

Version 1.0

Revision Date 11.04.2023

Print Date 12.04.2023

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

Trade name : STAPA AC REFLEXAL 3432/85 Aluminum Paste
Material number : 046291FH0

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.

Information concerning particular hazards for human and environment:

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Please refer to our website for further important safety instructions for handling aluminium powder:
http://www.eckart.net/fileadmin/eckart/Service/GDA_Alupulver_Safety_engl.pdf

GHS-Labeling

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. EINECS-No. | Classification and labelling | Concentration[%] |
|---------------|------------------------|---------------------------------|------------------|
| aluminium | 7429-90-5 231-072-3 | Flam. Sol.;1;H228 | 50 - 100 |

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

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

General advice : Move the victim to fresh air.
No hazards which require special first aid measures.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water.

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- In case of eye contact : 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.

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 (CO₂), Water, Foam

5.2 Special hazards arising from the substance or mixture

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

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.

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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Evacuate personnel to safe areas.
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.
Do not use a vacuum cleaner.
Pick up and arrange disposal without creating dust.
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 : Avoid creating dust. Routine housekeeping should be
instituted to ensure that dusts do not accumulate on surfaces.
Keep away from heat and sources of ignition. Do not smoke.

For personal protection see section 8. Smoking, eating and
drinking should be prohibited in the application area.

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Advice on protection against fire and explosion : During processing, dust may form explosive mixture in air. Take measures to prevent the build up of electrostatic charge. Earthing of containers and apparatuses is essential. Use explosion-proof equipment. When transferring from one container to another apply earthing measures and use conductive hose material.

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 : Reaction with water liberates extremely flammable gas (hydrogen) 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.

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 : Keep in a dry place. 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 (Form of exposure) | Control parameters | Update | Basis |
|---|-----------|---|------------------------|------------|-------------|
| aluminium | 7429-90-5 | AGW (Inhalable fraction) | 10 mg/m ³ | 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 ³ | 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 (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 ³ | 2013-10-08 | |
| aluminium | 7429-90-5 | TWA (total dust) | 15 mg/m ³ | 2012-07-01 | |
| aluminium | 7429-90-5 | TWA (total) | 10 mg/m ³ | 2013-10-08 | |
| aluminium | 7429-90-5 | TWA (respirable fraction) | 5 mg/m ³ | 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 ³ | 2014-11-26 | |
| aluminium | 7429-90-5 | PEL (respirable) | 5 mg/m ³ | 2014-11-26 | |

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| | | | | | |
|--------------------------------------|-----------|--|----------|------------|--|
| aluminium | 7429-90-5 | dust fraction) 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 | |
| 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 | |
| Paraffin waxes and Hydrocarbon waxes | 8002-74-2 | TWA | 2 mg/m3 | 2007-01-01 | |
| Paraffin waxes and Hydrocarbon waxes | 8002-74-2 | TWA (Fumes) | 2 mg/m3 | 2005-09-01 | |
| Paraffin waxes and | 8002-74-2 | TWA | 2 mg/m3 | 1989-01-19 | |

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| | | | | | |
|--------------------------------------|-----------|-------------|---------------------|------------|--|
| Hydrocarbon waxes | | | | | |
| Paraffin waxes and Hydrocarbon waxes | 8002-74-2 | TWA (Fumes) | 2 mg/m ³ | 2010-03-01 | |
| Paraffin waxes and Hydrocarbon waxes | 8002-74-2 | TWA (Fumes) | 2 mg/m ³ | 2013-10-08 | |
| Paraffin waxes and Hydrocarbon waxes | 8002-74-2 | PEL (Fumes) | 2 mg/m ³ | 2014-11-26 | |
| Paraffin waxes and Hydrocarbon waxes | 8002-74-2 | TWA (Fumes) | 2 mg/m ³ | 1989-01-19 | |

8.2 Exposure controls**Personal protective equipment**

Eye protection : Face-shield
: Safety glasses

Hand protection

Material : Leather
Glove length : Long sleeve gloves
Remarks : Leather gloves

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin and body protection : Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1. Anti-static safety shoes.
Respiratory protection : Use suitable breathing protection if workplace concentration

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requires.

Breathing apparatus with filter.

P1 filter

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 | : powder |
| Colour | : silver |
| Odour | : odourless |
| pH | : substance/mixture is non-soluble (in water) |
| Melting point/range | : 660 °C |
| Boiling point/boiling range | : No data available |
| Flash point | : > 94 °C |
| Bulk density | : No data available |
| Flammability (solid, gas) | : Combustible Solids |
| Auto-flammability | : No data available |
| Upper explosion limit | : No data available |
| Lower explosion limit | : 30 g/m3 |
| Vapour pressure | : No data available |
| Density | : 2,0 g/cm3 (ca.) |

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Solubility(ies)

| | |
|--|---------------------|
| Water solubility | : insoluble |
| Miscibility with water | : immiscible |
| 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

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.

Dust may form explosive mixture in air.

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10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materialsMaterials to avoid : Acids
Bases
Oxidizing agents
Water**10.6 Hazardous decomposition products**

Other information : No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

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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**

No data available

12.2 Persistence and degradability

No data available

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12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Product:**

Additional ecological : 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**

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Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name**ADR**

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class**ADR**

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

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IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group**ADR**

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards**14.6 Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

| | |
|--|--|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : 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 |
| 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)) |

15.2 Chemical safety assessment

No data available

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

H228 : Flammable solid.

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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