STAPA NDF 120 ALUMINUM PASTE

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

1.1 Product identifier
   Trade name: STAPA NDF 120 ALUMINUM PASTE

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
   GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
   From outside US: (001) 352-323-3500
   (First call in English, response in your language is possible)
   US & Canada (toll free): 1-800-5355-053

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

   Classification (REGULATION (EC) No 1272/2008)
   Flammable solids, Category 1: H228: Flammable solid.
   Chronic aquatic toxicity, Category 3: H412: Harmful to aquatic life with long lasting effects.

   Classification (67/548/EEC, 1999/45/EC)
   Highly flammable: R11: Highly flammable.
   Dangerous for the environment: R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements
   Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms

Signal word: Danger

Hazard statements
- H228: Flammable solid.
- H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:
- Prevention:
  - P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P273: Avoid release to the environment.
- Response:
  - P370 + P378: In case of fire: Use for extinction: Special powder for metal fires.
  - P370 + P378: In case of fire: Use for extinction: Dry sand.
- Disposal:
  - P501: Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5 231-072-3</td>
<td>F; R11</td>
<td>Flam. Sol. 1; H228</td>
<td>&gt;= 50 - &lt;= 100</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>64742-48-9 265-150-3</td>
<td>Xn; R65</td>
<td>Asp. Tox. 1; H304 Asp. Tox. 1; H304</td>
<td>&gt;= 10 - &lt; 20</td>
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<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6 265-199-0</td>
<td>Xn; R65 Xi; R37 N; R51/53 R10</td>
<td>Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335, H336</td>
<td>&gt;= 2.5 - &lt; 10</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:
- Move out of dangerous area.
- Move the victim to fresh air.
- Do not leave the victim unattended.

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

In case of skin contact:
- If on skin, rinse well with water.
- If on clothes, remove clothes.
- Wash off immediately with soap and plenty of water.

In case of eye contact:
- Flush eyes with water as a precaution.
- Remove contact lenses.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.
- Immediately flush eye(s) with plenty of water.

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

Symptoms:
- No information available.

Risks:
- No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:
- No information 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: 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.

Use a water spray to cool fully closed containers. 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.

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Further information:

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid dust formation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions: 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.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Do not flush with water.
Keep in suitable, closed containers for disposal.

Use mechanical handling equipment.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures: Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: No smoking. Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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.

Further information on storage conditions: Protect from humidity and water.
Advice on common storage: Do not store near acids. Do not store together with oxidizing and self-igniting products. Keep away from oxidising agents and strongly acid or alkaline materials. Never allow product to get in contact with water during storage. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

German storage class: 4.1B, Flammable solid hazardous materials

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td>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-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.</td>
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<td></td>
</tr>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA (Respirable)</td>
<td>4 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
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<tr>
<td>Further information</td>
<td></td>
<td></td>
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<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>
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 MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. 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\(^{-3}\) 8-hour TWA of inhalable dust or 4 mg.m\(^{-3}\) 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. 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 MDHS14/3. 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 should be used.

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<th>aluminium</th>
<th>7429-90-5</th>
<th>TWA (Respirable)</th>
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<th>2005-04-06</th>
<th>GB EH40</th>
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Further information

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<tr>
<th>DNEL: Naphtha (petroleum), hydrotreated heavy (64742-48-9)</th>
<th>End Use: Workers</th>
<th>Exposure routes: Skin contact</th>
<th>Potential health effects: long term – systemic effects</th>
<th>Value: 300 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNEL: Naphtha (petroleum), hydrotreated heavy (64742-48-9)</td>
<td>End Use: Consumers</td>
<td>Exposure routes: Ingestion</td>
<td>Potential health effects: long term – systemic effects</td>
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<tr>
<td>DNEL: Naphtha (petroleum), hydrotreated heavy (64742-48-9)</td>
<td>End Use: Consumers</td>
<td>Exposure routes: Inhalation</td>
<td>Potential health effects: long term – systemic effects</td>
<td>Value: 900 mg/m³</td>
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<td>DNEL: Solvent naphtha (petroleum), light arom. (64742-95-6)</td>
<td>End Use: Consumers</td>
<td>Exposure routes: Ingestion</td>
<td>Potential health effects: long term – systemic effects</td>
<td>Value: 11 mg/kg</td>
</tr>
<tr>
<td>DNEL: Solvent naphtha (petroleum), light arom. (64742-95-6)</td>
<td>End Use: Consumers</td>
<td>Exposure routes: Skin contact</td>
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<td>End Use: Consumers</td>
<td>Exposure routes: Inhalation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Potential health effects: long term – systemic effects
Value: 32 mg/m3

8.2 Exposure controls

Personal protective equipment
Eye protection : Eye wash bottle with pure water

: Goggles

Hand protection
Material : Solvent-resistant gloves (butyl-rubber)

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

: 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 : Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Respiratory protection : Use suitable breathing protection if workplace concentration requires.

Environmental exposure controls
General advice : 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.

: Water

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Pasty solid

Colour : silver

Odour : characteristic

pH : no data available

Freezing point : no data available

Boiling point/boiling range : 162 °C

Flash point : 45 °C

Bulk density : no data available

Flammability (solid, gas) : no data available

Auto-flammability : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available

Density : no data available

Water solubility : no data available

Solubility in other solvents : no data available

Partition coefficient: n-octanol/water : no data available

Auto-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.

10.4 Conditions to avoid
Conditions to avoid : Heat, flames and sparks.
Do not allow evaporation to dryness.

10.5 Incompatible materials
Materials to avoid : Acids
Bases
Oxidizing agents

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
   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

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.

SECTION 13: Disposal considerations

European Waste Catalogue: 12 01 04 - non-ferrous metal dust and particles

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
Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number
   ADR : 1325
   IMDG : 1325
   IATA : 1325

14.2 Proper shipping name
   ADR : FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminium pigment paste)
   IMDG : FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminium pigment paste)
   IATA : FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminium pigment paste)

14.3 Transport hazard class
   ADR : 4.1
   IMDG : 4.1
   IATA : 4.1

14.4 Packing group
   ADR
   Packaging group : II
   Classification Code : F1
   Hazard identification No : 40
   Labels : 4.1
   Tunnel restriction code : (E)

   IMDG
   Packaging group : II
STAPA NDF 120 ALUMINUM PASTE

Version 1.1  Revision Date 09.04.2014  Print Date 20.11.2018

Labels : 4.1
EmS Number : F-G, S-G

IATA
Packing instruction (cargo aircraft) : 448
Packing instruction (passenger aircraft) : 445
Packing instruction (LQ) : Y441
Packaging group : II
Labels : 4.1

14.5 Environmental hazards

IMDG :

14.6 Special precautions for user

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

15.2 Chemical Safety Assessment
    no data available

SECTION 16: Other information

Full text of R-Phrases

R10 Flammable.
R11 Highly flammable.
R37 Irritating to respiratory system.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65  Harmful: may cause lung damage if swallowed.

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.

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.