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

1.1 Product identifier
   Trade name: STAPA BG HYDROLAN 161 55900/G Aluminium 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)
   Acute toxicity, Category 4: H302: Harmful if swallowed.
   Acute toxicity, Category 4: H332: Harmful if inhaled.
   Skin irritation, Category 2: H315: Causes skin irritation.
   Eye irritation, Category 2: H319: Causes serious eye irritation.

   Classification (67/548/EEC, 1999/45/EC)
   Harmful: R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
   Irritant: R36/38: Irritating to eyes and skin.

2.2 Label elements

   Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms:

Signal word: Warning

Hazard statements:
- H302 + H332: Harmful if swallowed or if inhaled
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

Precautionary statements:

Prevention:
- P261: Avoid breathing vapours.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
- P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal:
- P501: Dispose of contents/container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
- 111-76-2: 2-butoxyethanol

2.3 Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No</th>
<th>Concentration [%]</th>
</tr>
</thead>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Move out of dangerous area.
   Show this safety data sheet to the doctor in attendance.

   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 skin irritation persists, call a physician.
   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: Immediately flush eye(s) with plenty of water.
   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
This information is not available.

5.3 Advice for firefighters
Special protective equipment for firefighters : Use personal protective equipment.
Wear self contained breathing apparatus for fire fighting if necessary.
Further information : 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.
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 : Use personal protective equipment.
Avoid dust formation.
Evacuate personnel to safe areas.
Use personal protective equipment.

6.2 Environmental precautions
Environmental precautions:
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:
Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid contact with skin and eyes. 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:
Avoid dust formation.

Hygiene measures:
When using do not eat or drink. When using do not smoke. 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:
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
## 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>Components</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/m$^3$</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information: 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.

<table>
<thead>
<tr>
<th>Components</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 (Respirable)</td>
<td>4 mg/m$^3$</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information: 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...
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<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>TWA (Inhalable)</th>
<th>Limit</th>
<th>Date</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>10 mg/m³</td>
<td>2005-04-06</td>
<td>GB EH40</td>
<td></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>Limit</th>
<th>Date</th>
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<td></td>
</tr>
</tbody>
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<tr>
<th>Components</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>2-butoxyethanol</td>
<td>111-76-2</td>
<td>TWA</td>
<td>20 ppm</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>98 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>50 ppm</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>246 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>25 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>50 ppm</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information

Identifies the possibility of significant uptake through the skin
Indicative

Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

<table>
<thead>
<tr>
<th>Components</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>silicon dioxide</td>
<td>7631-86-9</td>
<td>TWA (Inhalable)</td>
<td>6 mg/m³</td>
<td>2007-08-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

Further information

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<table>
<thead>
<tr>
<th>silicon dioxide</th>
<th>7631-86-9</th>
<th>TWA (Respirable)</th>
<th>2.4 mg/m(^3)</th>
<th>2007-08-01</th>
<th>GB EH40</th>
</tr>
</thead>
</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.

<table>
<thead>
<tr>
<th>DNEL: 2-butoxyethanol (111-76-2)</th>
<th>End Use: Workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential health effects: short term – systemic effects</td>
<td>Value: 89 mg/kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DNEL: 2-butoxyethanol (111-76-2)</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Inhalation</td>
<td>Potential health effects: short term – local effects</td>
</tr>
<tr>
<td>Value: 123 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DNEL: 2-butoxyethanol (111-76-2)</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Ingestion</td>
<td>Potential health effects: short term – systemic effects</td>
</tr>
<tr>
<td>Value: 13.4 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DNEL: 2-butoxyethanol (111-76-2)</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Skin contact</td>
<td>Potential health effects: short term – systemic effects</td>
</tr>
<tr>
<td>Value: 44.5 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DNEL: 2-butoxyethanol (111-76-2)</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Inhalation</td>
<td>Potential health effects: short term – systemic effects</td>
</tr>
<tr>
<td>Value: 426 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DNEL: 2-butoxyethanol (111-76-2)</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Ingestion</td>
<td>Potential health effects: long term – systemic effects</td>
</tr>
<tr>
<td>Value: 3.2 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 38 mg/kg

DNEL:
2-butoxyethanol (111-76-2) End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 49 mg/m³

PNEC:
2-butoxyethanol (111-76-2) Fresh water
Value: 8.8 mg/l

PNEC:
2-butoxyethanol (111-76-2) Fresh water sediment
Value: 34.6 mg/kg

PNEC:
2-butoxyethanol (111-76-2) Marine water
Value: 0.88 mg/l

PNEC:
2-butoxyethanol (111-76-2) Marine sediment
Value: 3.46 mg/kg

PNEC:
2-butoxyethanol (111-76-2) STP
Value: 463 mg/l

8.2 Exposure controls

Personal protective equipment
Eye protection: Eye wash bottle with pure water
   Wear face-shield and protective suit for abnormal processing problems.
   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 work place.

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

Environmental exposure controls
General advice: 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
STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Odour : characteristic
pH : no data available
Freezing point : no data available
Boiling point/boiling range : 171 °C
Flash point : 65 °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 : Stable under recommended storage conditions.
10.4 Conditions to avoid

Conditions to avoid : no data available

Do not allow evaporation to dryness.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Other information : no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product

Acute oral toxicity : Acute toxicity estimate : 1,250 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 3.75 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Components:
STAPA BG HYDROLAN 161 55900/G Aluminium Paste

7429-90-5:
Acute inhalation toxicity : LC50 rat: > 5 mg/l
   Exposure time: 4 h
   Test atmosphere: dust/mist

111-76-2:
Acute oral toxicity : Acute toxicity estimate : 500 mg/kg
   Method: Converted acute toxicity point estimate

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg
   Method: Converted acute toxicity point estimate

Skin corrosion/irritation
Product
May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation
Product
May cause irreversible eye damage.

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
STAPA BG HYDROLAN 161 55900/G Aluminium Paste

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 : no data available

---

**SECTION 13: Disposal considerations**

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

**13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

---

**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
SECTION 15: Regulatory information

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

no data available

15.2 Chemical Safety Assessment

no data available

SECTION 16: Other information

Full text of R-Phrases

R11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36/38 Irritating to eyes and skin.

Full text of H-Statements

H228 Flammable solid.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

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.