

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STAPA BG HYDROLAN 8154 55900/G Aluminium Paste

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 02.12.2023          |
| 4.0     | 01.12.2023     | 102000003476 | Date of first issue: 03.01.2019 |

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

#### 1.1 Product identifier

Trade name : STAPA BG HYDROLAN 8154 55900/G Aluminium Paste

Product code : 005351GK0

#### 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 GmbH  
Guentersthal 4  
91235 Hartenstein

Telephone : +499152770

Telefax : +499152777008

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)

|                             |                                      |
|-----------------------------|--------------------------------------|
| 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. |

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

### Hazardous components which must be listed on the label:

2-butoxyethanol

### Additional Labelling

EUH208 Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

## 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) |
|---------------|---|---|--------------------------|
|               |   |   |                          |

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|  |  |   |                |
|--|--|---|----------------|
| aluminium powder (stabilised)                | 7429-90-5<br>231-072-3<br>013-002-00-1<br><br>01-2119529243-45 | Flam. Sol. 1; H228  | >= 50 - <= 100 |
| 2-butoxyethanol                              | 111-76-2<br>203-905-0<br>603-014-00-0<br><br>01-2119475108-36  | Acute Tox. 4; H302<br>Acute Tox. 3; H331<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>1,200 mg/kg<br>1,200 mg/kg<br>1,200 mg/kg<br>Acute inhalation toxicity (vapour): 3 mg/l<br>3 mg/l | >= 25 - < 50   |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | 1760-24-3<br>217-164-6<br><br>01-2119970215-39                 | Acute Tox. 4; H332<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317  | >= 0.1 - < 1   |

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.
- Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Remove to fresh air.  
Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- If skin irritation persists, call a physician.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
- Immediately flush eye(s) with plenty of water.

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Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.  
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 : Causes skin irritation.  
Causes serious eye irritation.  
Harmful if inhaled.

### 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 : Water  
Foam  
ABC powder  
Carbon dioxide (CO<sub>2</sub>)

### 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 firefighting if necessary.

Further information : 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

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

### 6.2 Environmental precautions

General advice : The product should not be allowed to enter drains, water courses or the soil.  
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 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).  
  
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.  
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.  
Provide sufficient air exchange and/or exhaust in work rooms.  
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. Earthing of containers and apparatuses is essential.  
  
Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

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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 : 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.

Keep container tightly closed in a dry and well-ventilated place. 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 |           |                               |                      |         |

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|                 |   |                       |                                 |            |
|-----------------|---|-----------------------|---------------------------------|------------|
|                 | <p>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>  |                       |                                 |            |
|                 |   | 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> |                       |                                 |            |
| 2-butoxyethanol | 111-76-2  | TWA                   | 20 ppm<br>98 mg/m <sup>3</sup>  | 2000/39/EC |
|                 | <p>Further information: Identifies the possibility of significant uptake through the skin, Indicative</p>   |                       |                                 |            |
|                 |   | STEL                  | 50 ppm<br>246 mg/m <sup>3</sup> | 2000/39/EC |
|                 | <p>Further information: Identifies the possibility of significant uptake through the skin, Indicative</p>   |                       |                                 |            |
|                 |   | TWA                   | 25 ppm<br>123 mg/m <sup>3</sup> | GB EH40    |
|                 | <p>Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.</p>   |                       |                                 |            |



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|                 |  |                       |                                   |         |
|-----------------|--|-----------------------|-----------------------------------|---------|
|                 |  | STEL                  | 50 ppm<br>246 mg/m <sup>3</sup>   | GB EH40 |
|                 | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.   |                       |                                   |         |
| silicon dioxide | 7631-86-9  | TWA (inhalable dust)  | 6 mg/m <sup>3</sup><br>(Silica)   | 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-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 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. |                       |                                   |         |
|                 |  | TWA (Respirable dust) | 2.4 mg/m <sup>3</sup><br>(Silica) | 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-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 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   |                       |                                   |         |



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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.

### Biological occupational exposure limits

| Substance name  | CAS-No.  | Control parameters   | Sampling time | Basis          |
|-----------------|----------|--|---------------|----------------|
| 2-butoxyethanol | 111-76-2 | butoxyacetic acid:<br>240 Millimoles per<br>mole creatinine<br>(Urine) | After shift   | GB EH40<br>BAT |

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

| Substance name                   | End Use   | Exposure routes | Potential health effects   | Value      |
|----------------------------------|-----------|-----------------|----------------------------|------------|
| aluminium powder<br>(stabilised) | Workers   | Inhalation      | Long-term systemic effects | 3.72 mg/m3 |
|                                  | Workers   | Inhalation      | Long-term local effects    | 3.72 mg/m3 |
|                                  | Consumers | Oral            | Long-term systemic effects | 3.95 mg/kg |
| 2-butoxyethanol                  | Workers   | Inhalation      | Long-term systemic effects | 98 mg/m3   |
|                                  | Workers   | Inhalation      | Acute systemic effects     | 1091 mg/m3 |
|                                  | Workers   | Inhalation      | Acute local effects        | 246 mg/m3  |
|                                  | Workers   | Skin contact    | Long-term systemic effects | 75 mg/kg   |
|                                  | Workers   | Skin contact    | Acute systemic effects     | 89 mg/kg   |
|                                  | Consumers | Inhalation      | Long-term systemic effects | 59 mg/m3   |
|                                  | Consumers | Inhalation      | Acute systemic effects     | 426 mg/m3  |
|                                  | Consumers | Inhalation      | Acute local effects        | 147 mg/m3  |
|                                  | Consumers | Skin contact    | Long-term systemic effects | 75 mg/kg   |
|                                  | Consumers | Skin contact    | Acute systemic effects     | 89 mg/kg   |
| silicon dioxide                  | Consumers | Ingestion       | Long-term systemic effects | 6.3 mg/kg  |
|                                  | Consumers | Ingestion       | Acute systemic effects     | 26.7 mg/kg |
|                                  | Workers   | Inhalation      | Long-term systemic effects | 4 mg/m3    |
|                                  | Workers   | Inhalation      | Long-term systemic effects | 35.3 mg/m3 |
|                                  | Workers   | Dermal          | Long-term systemic         | 5 mg/kg    |
|                                  | Workers   | Dermal          | Long-term systemic         | 5 mg/kg    |

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|  |           |            |                            |           |
|--|-----------|------------|----------------------------|-----------|
|  |           |            | effects                    |           |
|  | Workers   | Dermal     | Acute systemic effects     | 5 mg/kg   |
|  | Consumers | Inhalation | Long-term systemic effects | 8.7 mg/m3 |
|  | Consumers | Dermal     | Long-term systemic effects | 2.5 mg/kg |
|  | Consumers | Dermal     | Acute systemic effects     | 17 mg/kg  |
|  | Consumers | Oral       | Long-term systemic effects | 2.5 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      |
| 2-butoxyethanol                               | Fresh water               | 8.8 mg/l     |
|   | Marine water              | 0.88 mg/l    |
|   | STP                       | 463 mg/l     |
|   | Fresh water sediment      | 34.6 mg/kg   |
|   | Marine sediment           | 3.46 mg/kg   |
|   | Soil                      | 2.33 mg/kg   |
| N-(3-(trimethoxysilyl)propyl)ethylenedi amine | Sporadic Release          | 9.1 mg/l     |
|   | Secondary Poisoning       | 20 mg/kg     |
|   | Fresh water               | 0.062 mg/l   |
|   | Marine water              | 0.0062 mg/l  |
|   | STP                       | 25 mg/l      |
|   | Fresh water sediment      | 0.048 mg/kg  |
|   | Marine sediment           | 0.0048 mg/kg |
|   | Soil                      | 0.0075 mg/kg |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

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

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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<br>Safety shoes<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.<br>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.  |

### SECTION 9: Physical and chemical properties

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

|  |   |   |
|--|---|---|
| Form   | : | Pasty solid                                 |
| Colour   | : | silver                                      |
| Odour  | : | characteristic                              |
| Odour Threshold                                  | : | No data available                           |
| Melting point/range                              | : | Not applicable                              |
| Boiling point/boiling range                      | : | 168 - 172 °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                        | : | No data available                           |
| Decomposition temperature                        | : | No data available                           |
| pH   | : | substance/mixture is non-soluble (in water) |

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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

Vapor Pressure for Components:

2-butoxyethanol : 0.8 hPa (20 °C)

N-(3-(trimethoxysilyl)propyl)ethylenediamine : 1.5 hPa (20 °C)

Relative density : No data available

Density : 1.3 - 2.0 g/cm<sup>3</sup>

Relative vapour density : No data available

Particle characteristics

Particle Size Distribution : No data available

### 9.2 Other information

Explosives : Not explosive

Self-ignition : not auto-flammable  
not auto-flammable

Miscibility with water : partly miscible

## 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.  
No decomposition if stored and applied as directed.

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### 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

Harmful if inhaled.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 1.25 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

#### Components:

##### aluminium powder (stabilised):

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

##### 2-butoxyethanol:

Acute oral toxicity : Acute toxicity estimate: 1,200 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008  
  
Acute toxicity estimate: 1,200 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

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Acute toxicity estimate: 1,200 mg/kg  
Method: Expert judgement

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l  
Test atmosphere: vapour  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

Acute toxicity estimate: 3 mg/l  
Test atmosphere: vapour  
Method: Expert judgement

### **N-(3-(trimethoxysilyl)propyl)ethylenediamine:**

Acute oral toxicity : LD50 (Rat): ca. 2,995 mg/kg

Acute inhalation toxicity : LC50: 1.49 - 2.44 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Assessment: The component/mixture is moderately toxic after  
short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Remarks : May cause skin irritation in susceptible persons.

#### **Components:**

##### **2-butoxyethanol:**

Result : Skin irritation

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

Causes serious eye irritation.

#### **Product:**

Remarks : May cause irreversible eye damage.

#### **Components:**

##### **2-butoxyethanol:**

Result : Eye irritation

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### **N-(3-(trimethoxysilyl)propyl)ethylenediamine:**

Result : Corrosive

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

### **N-(3-(trimethoxysilyl)propyl)ethylenediamine:**

Result : May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## **11.2 Information on other hazards**

### **Further information**

### **Product:**

Remarks : No data available

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## **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

#### 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 : 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) containing hazardous substances

### 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.

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## 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

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### 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)<br>(Number on list 40)<br>2-butoxyethanol (Number on list 3)<br>N-(3-(trimethoxysilyl)propyl)ethylenediamine (Number on list 3) |
|--|---|--|

|  |   |                |
|--|---|----------------|
| UK REACH Candidate list of substances of very high | : | Not applicable |
|--|---|----------------|

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concern (SVHC) for Authorisation

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

## SECTION 16: Other information

### Full text of H-Statements

|      |  |
|------|--|
| H228 | : Flammable solid.                     |
| H302 | : Harmful if swallowed.                |
| H315 | : Causes skin irritation.              |
| H317 | : May cause an allergic skin reaction. |
| H318 | : Causes serious eye damage.           |
| H319 | : Causes serious eye irritation.       |
| H331 | : Toxic if inhaled.                    |
| H332 | : Harmful if inhaled.                  |

### Full text of other abbreviations

|                   |  |
|-------------------|--|
| Acute Tox.        | : Acute toxicity   |
| Eye Dam.          | : Serious eye damage   |
| Eye Irrit.        | : Eye irritation   |
| Flam. Sol.        | : Flammable solids   |
| Skin Irrit.       | : Skin irritation  |
| Skin Sens.        | : Skin sensitisation   |
| 2000/39/EC        | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| GB EH40           | : UK. EH40 WEL - Workplace Exposure Limits   |
| GB EH40 BAT       | : UK. Biological monitoring guidance values  |
| 2000/39/EC / TWA  | : Limit Value - eight hours  |
| 2000/39/EC / STEL | : Short term exposure limit  |
| GB EH40 / TWA     | : Long-term exposure limit (8-hour TWA reference period)   |
| GB EH40 / STEL    | : Short-term exposure limit (15-minute reference period)   |

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 -

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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:

|               |      |
|---------------|------|
| Acute Tox. 4  | H332 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2  | H319 |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| 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.

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