

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

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
Material number : 005707GD0

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 :

Telephone :
Telefax :
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

: Acute toxicity, Category 4, Oral, H302
Acute toxicity, Category 4, Inhalation, H332
Acute toxicity, Category 5, Dermal, H313

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

Skin corrosion/irritation, Category 2, H315
 Serious eye damage/eye irritation, Category 2A, H319

GHS-Labeling

Symbol(s)

:



Signal word

:

Warning

Hazard statements

:

H302 + H332: Harmful if swallowed or if inhaled.
 H313: May be harmful in contact with skin.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.

Precautionary statements

:

Prevention:
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 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.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label

Identification
 2-butoxyethanol
 silicon dioxide

CAS-No.
 111-76-2
 7631-86-9

Other hazards which do not result in classification

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

Combustible Solids

SECTION 3: Composition/information on ingredients

Substance No. :


Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium powder (stabilised)	7429-90-5 231-072-3	Flam. Sol.;1;H228	50 - 100
2-butoxyethanol	111-76-2 203-905-0	Flam. Liq.;4;H227 Acute Tox.;4;H302 Acute Tox.;4;H312 Acute Tox.;4;H332 Skin Irrit.;2;H315 Eye Irrit.;2;H319	25 - 50
silicon dioxide	7631-86-9 231-545-4	Acute Tox.;5;H303	1 - 10
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3 217-164-6	Acute Tox.;5;H303 Acute Tox.;4;H332 ;1;H318 Skin Sens.;1;H317	0,1 - 1

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

Page 3 / 21	102000020087	A member of 
-------------	--------------	---

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

- General advice : Move the victim to fresh air.
Do not leave the victim unattended.
- Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- 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.
- If skin irritation persists, call a physician.
If on skin, rinse well with water.
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.
Remove contact lenses.
Keep eye wide open while rinsing.
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.

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

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 (CO₂)**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 : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.
Remove all sources of ignition.
Use personal protective equipment.
Avoid dust formation.**6.2 Environmental precautions**

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

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

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 : 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. 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.

Hygiene measures : When using do not eat or drink. When using do not smoke.
 Wash hands before breaks and at the end of workday.

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

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.
- 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
Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium powder (stabilised)	7429-90-5	AGW (Inhalable fraction)	10 mg/m ³	2014-04-02	DE TRGS 900
Peak-limit: excursion		2;(II)			

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

factor (category)					
Further information		Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
aluminium powder (stabilised)	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m ³	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
2-butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m ³	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skinIndicative			
2-butoxyethanol	111-76-2	STEL	50 ppm 246 mg/m ³	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skinIndicative			
2-butoxyethanol	111-76-2	AGW	10 ppm 49 mg/m ³	2012-01-12	DE TRGS 900
Peak-limit: excursion factor (category)		4;(II)			
Further information		Commission for dangerous substancesSkin absorptionWhen there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
silicon dioxide	7631-86-9	AGW (Inhalable fraction)	4 mg/m ³	2013-09-19	DE TRGS 900
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).Colloidal amorphous silica, including pyrogenic silica and in wet processes			

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

	manufactured silica (precipitated silica, silicagel).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 powder (stabilised)	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (total)	10 mg/m3	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m3	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium powder (stabilised)	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26	
aluminium powder (stabilised)	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m3	2008-01-01	
aluminium powder (stabilised)	7429-90-5	TWA	5 mg/m3	2005-09-01	

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

aluminium powder (stabilised)	7429-90-5	TWA (Total)	15 mg/m ³	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	5 mg/m ³	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m ³	2011-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m ³	2011-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (Total dust)	15 mg/m ³	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (respirable dust fraction)	5 mg/m ³	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (welding fumes)	5 mg/m ³	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (pyro powders)	5 mg/m ³	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m ³	2013-03-01	
aluminium powder (stabilised)	7429-90-5	TWA (Fumes)	5 mg/m ³	1989-01-19	
aluminium powder (stabilised)	7429-90-5	PEL (Welding fumes)	5 mg/m ³	2017-10-02	
aluminium powder (stabilised)	7429-90-5	PEL (Pyro powders)	5 mg/m ³	2017-10-02	
2-butoxyethano	111-76-2	TWA	20 ppm	2013-03-01	

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

2-butoxyethano	111-76-2	TWA	5 ppm 24 mg/m ³	2013-10-08	
2-butoxyethano	111-76-2	TWA	50 ppm 240 mg/m ³	1997-08-04	
2-butoxyethano	111-76-2	TWA	25 ppm 120 mg/m ³	1989-01-19	
2-butoxyethano	111-76-2	PEL	20 ppm 97 mg/m ³	2014-11-26	
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot	2012-07-01	
silicon dioxide	7631-86-9	TWA (Dust)	80 mg/m ³ / %SiO ₂	2012-07-01	
silicon dioxide	7631-86-9	TWA	6 mg/m ³	2013-10-08	
silicon dioxide	7631-86-9	PEL	6 mg/m ³	2014-11-26	

8.2 Exposure controls

Personal protective equipment

Eye protection : 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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

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.

- : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Long sleeved clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- : 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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

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	: 171 °C
Flash point	: No data available
Bulk density	: No data available
Flammability (solid, gas)	: Combustible Solids
Auto-flammability	: not auto-flammable
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
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

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
Explosive properties	: Not explosive

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 : 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.

Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : Do not allow to dry.

No data available

10.5 Incompatible materials

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

Materials to avoid : Acids
Bases
Oxidizing agents
Highly halogenated compounds

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****Components:****2-butoxyethanol :**

Acute inhalation toxicity : > 3,1 mg/l

Exposure time: 1 h

Test atmosphere: vapour

Acute dermal toxicity : The component/mixture is moderately toxic after single contact with skin.

silicon dioxide :

Acute oral toxicity : LD50 Rat: 5 000 mg/kg

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

Mouse: 15 000 mg/kg

Acute inhalation toxicity : Rat: 0,139 mg/l

Exposure time: 4 h

Acute dermal toxicity : LD50 Rabbit: > 5 000 mg/kg

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

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

Skin corrosion/irritation**Product**

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation**Product**

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

Eye irritation

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

SECTION 12: Ecological information**12.1 Toxicity****Components:****silicon dioxide (7631-86-9) :**Toxicity to daphnia and other : (Daphnia (water flea)): 7 600 mg/l
aquatic invertebratesToxicity to algae : (Chlorella pyrenoidosa (aglae)): 440 mg/l
Exposure time: 72 h**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 : No data available
information

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

SECTION 13: Disposal considerations

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.
In accordance with local and national regulations.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
In accordance with local and national regulations.

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

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 (EC) No 850/2004 on persistent organic pollutants : Not applicable

15.2 Chemical safety assessment

No data available

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

H227 : Combustible liquid.
H228 : Flammable solid.
H302 : Harmful if swallowed.
H302 + H332 : Harmful if swallowed or if inhaled.
H303 : May be harmful if swallowed.
H312 : Harmful in contact with skin.
H313 : May be harmful in contact with skin.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

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

STAPA BG HYDROLAN 161 55900/G Aluminium Paste

Version 2.1

Revision Date 24.03.2020

Print Date 06.08.2020

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.