according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : STAPA HYDROXAL V 2020 Aluminium Paste

Product code : 024045KA0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Colouring agents, pigments

Substance/Mixture

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

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)

Call and response in your language is possible.

Contract no.: ECKART29003-NCEC.

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to GHS.

#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

# **Additional Labelling**

EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

Combustible Solids

according to Regulation (EC) No. 1907/2006



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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

# **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	REGULATION (EC)	(% w/w)
	Index-No.	No 1272/2008	
	Registration number		
aluminium powder (stabilised)	7429-90-5	Flam. Sol. 1; H228	>= 50 - <= 100
	231-072-3		
	013-002-00-1		
	01-2119529243-45		
Phosphoric acid, C11-14-isoalkyl	154518-38-4	Skin Irrit. 2; H315	>= 3 - < 10
esters, C13-rich	(52933-07-0)	Eye Dam. 1; H318	
		Aquatic Chronic 2;	
	01-2119976356-25	H411	

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.

Do not leave the victim unattended.

No hazards which require special first aid measures.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

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

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

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

None known.

# 4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

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# **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media : Dry sand

Special powder against metal fire

Unsuitable extinguishing

media

ABC powder

Carbon dioxide (CO2)

Water Foam

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Contact with water liberates extremely flammable gas

(hydrogen).

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

# **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.

Avoid dust formation.

# 6.2 Environmental precautions

#### 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).

Sweep up and shovel. Do not flush with water.

Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

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# **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.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

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.

Electrical installations / working materials must comply with

the technological safety standards.

Advice on common storage : Do not store near acids.

Do not store together with oxidizing and self-igniting products. Keep away from oxidizing agents and strongly acid or alkaline

materials.

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)

This information is not available.

#### **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/m3	GB EH40
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 to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA (Respirable	4 mg/m3	GB EH40

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	fraction)		
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 to dust above these levels. Some dusts have been assigned		
	specific WELs and exposure to these must comply with the appropriate		
	limits., Where no specific short-term exposure limit is listed, a figure three		
	times the long-term exposure limit should be used.		
	TWA (inhalable 10 mg/m3 GB EH40		
	dust)		
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   4 mg/m3   GB EH40		
	dust)		
Further information	For the purposes of these limits, respirable dust and inhalable dust are		
T draior information	those fractions of airborne dust which will be collected when sampling is		
	undertaken in accordance with the methods described in MDHS14/4		
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# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium powder (stabilised)	Workers	Inhalation	Long-term local effects	3.72 mg/m3
	Consumers	Oral	Long-term systemic effects	3.95 mg/kg
	Workers	Inhalation	Long-term systemic effects	3.72 mg/m3
Phosphoric acid, C11- 14-isoalkyl esters, C13-rich	Workers	Inhalation	Long-term systemic effects	34.94 mg/m3
	Workers	Skin contact	Long-term systemic effects	100.13 mg/kg
	Consumers	Inhalation	Long-term systemic effects	10.43 mg/m3
	Consumers	Skin contact	Long-term systemic effects	60.08 mg/kg
	Consumers	Ingestion	Long-term systemic effects	6.01 mg/kg
2,2',2"-nitrilotriethanol	Workers	Inhalation	Long-term local effects	5 mg/m3
	Workers	Skin contact	Long-term systemic effects	6.3 mg/kg
	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Consumers	Inhalation	Long-term local effects	1.25 mg/m3
	Consumers	Ingestion	Long-term systemic effects	13 mg/kg
	Consumers	Skin contact	Long-term systemic effects	3.1 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.25 mg/m3

# 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
Phosphoric acid, C11-14-isoalkyl esters, C13-rich	Fresh water	6.31 μg/l
	Fresh water sediment	0.113 mg/kg

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	Sporadic Release	63.1 µg/l
	Marine water	0.631 μg/l
	Marine sediment	0.0113 mg/kg
	STP	10 mg/l
	Soil	0.0188 mg/kg
2,2',2"-nitrilotriethanol	Soil	0.151 mg/kg
	Fresh water	0.32 mg/l
	Fresh water sediment	1.7 mg/kg
	clarification plant	10 mg/l
	Marine water	0.032 mg/l
	Marine sediment	0.17 mg/kg

#### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Goggles

Safety glasses

Respiratory protection : Use suitable breathing protection if workplace concentration

requires.

#### **Environmental exposure controls**

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

Odour Threshold : No data available

pH : substance/mixture is non-soluble (in water)

Freezing point : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

Self-ignition : No data available

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Auto-ignition temperature : No data available

Smoldering temperature : No data available

Decomposition temperature : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Upper explosion limit / Upper

flammability limit

: No data available

Lower explosion limit / Lower

flammability limit

: No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.3 - 2.0 g/cm3

Bulk density : No data available

Solubility(ies)

Water solubility : partly miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Decomposition temperature : 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.

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### 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 : Do not allow evaporation to dryness.

No data available

10.5 Incompatible materials

Materials to avoid : Acids

Bases

Oxidizing agents

10.6 Hazardous decomposition products

Contact with water or humid

: This information is not available.

air

Thermal decomposition : This information is not available.

#### **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Acute toxicity**

Not classified based on available information.

#### **Components:**

#### aluminium powder (stabilised):

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

#### Skin corrosion/irritation

Not classified based on available information.

#### **Product:**

Result: No skin irritation

#### Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

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Result: Skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

# **Product:**

Result: No eye irritation

#### Components:

# Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Result: Corrosive

# Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### 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.

# **Further information**

#### **Product:**

Remarks: No data available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

#### **Product:**

# **Ecotoxicology Assessment**

Short-term (acute) aquatic : This product has no known ecotoxicological effects.

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hazard

Long-term (chronic) aquatic

hazard

: This product has no known ecotoxicological effects.

Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 6.31 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (algae): 150 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

**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 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

European Waste Catalogue : 10 03 21 - other particulates and dust (including ball-mill dust)

containing hazardous substances

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

according to Regulation (EC) No. 1907/2006



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handling site for recycling or disposal.

In accordance with local and national regulations.

# **SECTION 14: Transport information**

14.1 UN number

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not permitted for transport

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not permitted for transport

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not permitted for transport

14.4 Packing group

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not permitted for transport

IATA (Passenger) : Not permitted for transport

14.5 Environmental hazards

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport

regulations.

Due to the risk of hydrogen development we recommend to

refrain from airfreighting this/these product(s).

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

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

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic

pollutants (recast)

: Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

: Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

Conditions of restriction for the following entries should be

considered:

aluminium powder (stabilised)

(Number on list 40)

Phosphoric acid, C11-14-isoalkyl esters, C13-rich (Number on list 3)

# 15.2 Chemical safety assessment

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H228 : Flammable solid. H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage Flam. Sol. : Flammable solids Skin Irrit. : Skin irritation

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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;

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EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -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**

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.

GB / EN