

**STAPA HYDROXAL E 4000 Aluminium Paste**

Version            Revision Date:            SDS Number:            Date of last issue: -  
1.0                03/27/2018                102000024321            Date of first issue: 03/27/2018

---

**SECTION 1. IDENTIFICATION**

Product name                : STAPA HYDROXAL E 4000 Aluminium Paste  
Product code                : 022239KA0

**Manufacturer or supplier's details**

Company name of supplier    : ECKART GmbH

Address                      : Guentersthal 4  
   Hartenstein 91235

Telephone                    : +499152770

Telefax                      : +499152777008

Emergency telephone        : CHEMTREC: 800-424-9300  
   CHEMTREC: 1-703-527-3387 (International)

GBK Gefahrgut Buero 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****GHS classification in accordance with the Hazardous Products Regulations**

Specific target organ                : Category 2  
systemic toxicity - repeated  
exposure

**GHS label elements**

Hazard pictograms                :



Signal Word                    : Warning

Hazard Statements                : H373 May cause damage to organs through prolonged or  
repeated exposure.

## STAPA HYDROXAL E 4000 Aluminium Paste

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000024321	Date of first issue: 03/27/2018

Precautionary Statements :

**Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

**Response:**  
P314 Get medical advice/ attention if you feel unwell.

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

Hazardous ingredients which must be listed on the label:  
1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-Phosphonic acid, P-octyl-

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Aluminum	7429-90-5	>= 50 - < 70
1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-	95-38-5	>= 3 - < 5
Phosphonic acid, P-octyl-	4724-48-5	>= 1 - < 3

**SECTION 4. FIRST AID MEASURES**

General advice : Take the victim into 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 eye irritation persists, consult a specialist.

**STAPA HYDROXAL E 4000 Aluminium Paste**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000024321	Date of first issue: 03/27/2018

---

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.

Most important symptoms and effects, both acute and delayed : May cause damage to organs through prolonged or repeated exposure.

---

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Dry sand  
Special powder against metal fire

Unsuitable extinguishing media : ABC powder  
Carbon dioxide (CO<sub>2</sub>)  
Water  
Foam

Specific hazards during fire fighting : Contact with water liberates extremely flammable gas (hydrogen).

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

---

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
Avoid dust formation.

Methods and materials for containment and 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.

---

## STAPA HYDROXAL E 4000 Aluminium Paste

Version 1.0      Revision Date: 03/27/2018      SDS Number: 102000024321      Date of last issue: -  
 Date of first issue: 03/27/2018

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Earthing of containers and apparatuses is essential.  
Take measures to prevent the build up of electrostatic charge.  
Use explosion-proof equipment.  
Store in original container.  
Keep containers tightly closed in a cool, well-ventilated place.  
Keep away from sources of ignition - No smoking.  
Keep container closed when not in use.
- Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : 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.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum	7429-90-5	TWAEV	10 mg/m <sup>3</sup>	CA QC OEL
		TWA	10 mg/m <sup>3</sup>	CA AB OEL
		TWA (Respirable)	1 mg/m <sup>3</sup>	CA BC OEL
		TWA (Dust)	10 mg/m <sup>3</sup>	CA AB OEL
		TWAEV	10 mg/m <sup>3</sup>	CA QC OEL

## STAPA HYDROXAL E 4000 Aluminium Paste

Version 1.0      Revision Date: 03/27/2018      SDS Number: 102000024321      Date of last issue: -  
 Date of first issue: 03/27/2018

		TWA (Respirable)	1 mg/m <sup>3</sup> (Aluminum)	CA BC OEL
		TWAEV (Fumes)	5 mg/m <sup>3</sup> (Aluminum)	CA QC OEL
		TWA (Respirable fraction)	1 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable fraction)	1 mg/m <sup>3</sup> (Aluminum)	ACGIH

**Personal protective equipment**

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

Eye protection : Goggles  
Safety glasses

Hygiene measures : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Pasty solid  
 Color : silver  
 Odor : characteristic  
 Odor Threshold : No data available  
 pH : No data available  
 Melting point/freezing point : No data available  
 Initial boiling point and boiling range : No data available  
 Flash point : No data available  
 Evaporation rate : No data available  
 Flammability (solid, gas) : Combustible Solids

Auto-flammability : not auto-flammable  
 Upper explosion limit / Upper flammability limit : No data available  
 Lower explosion limit / Lower flammability limit : No data available  
 Vapor pressure : No data available  
 Relative density : No data available  
 Solubility(ies) : No data available  
 Partition coefficient: n-octanol/water : No data available  
 Autoignition temperature : No data available

**STAPA HYDROXAL E 4000 Aluminium Paste**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000024321	Date of first issue: 03/27/2018

---

Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	Not explosive

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Contact with acids and alkalis may release hydrogen. Stable under recommended storage conditions.
Conditions to avoid	:	Do not allow evaporation to dryness.  No data available
Incompatible materials	:	Acids Bases Oxidizing agents

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Ingredients:****Phosphonic acid, P-octyl-:**

Acute oral toxicity : (Rat): 500 - 2,000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Ingredients:****1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:**

Remarks: Extremely corrosive and destructive to tissue.

**Phosphonic acid, P-octyl-:**

Remarks: Extremely corrosive and destructive to tissue.

**Serious eye damage/eye irritation**

Not classified based on available information.

---

## STAPA HYDROXAL E 4000 Aluminium Paste

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000024321	Date of first issue: 03/27/2018

---

**Ingredients:****1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:**

Remarks: May cause irreversible eye damage.

**Phosphonic acid, P-octyl-:**

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

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**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Ingredients:****1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:**

Remarks: No data available

**Phosphonic acid, P-octyl-:**

Remarks: No data available

**STAPA HYDROXAL E 4000 Aluminium Paste**

Version            Revision Date:            SDS Number:            Date of last issue: -  
1.0                03/27/2018                102000024321            Date of first issue: 03/27/2018

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:**

M-Factor (Acute aquatic toxicity)            : 10

M-Factor (Chronic aquatic toxicity)            : 1

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

No data available

**Ingredients:****1H-Imidazole-1-ethanol, 2-(8-heptadecen-1-yl)-4,5-dihydro-:**

Additional ecological information            : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

**Phosphonic acid, P-octyl-:**

Additional ecological information            : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues            : In accordance with local and national regulations.

Contaminated packaging            : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
In accordance with local and national regulations.

**SECTION 14. TRANSPORT INFORMATION****International Regulations**



## STAPA HYDROXAL E 4000 Aluminium Paste

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000024321	Date of first issue: 03/27/2018

---

**IATA-DGR**

Not permitted for transport

**IMDG-Code**

Not regulated as a dangerous good

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).

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****TDG**

Not regulated as a dangerous good

---

**SECTION 15. REGULATORY INFORMATION**

**NPRI Ingredients** : Aluminum

**The ingredients of this product are reported in the following inventories:**

DSL : This product contains one or several components listed in the Canadian NDSL.

TSCA : On TSCA Inventory

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

---

**SECTION 16. OTHER INFORMATION**
**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)  
 CA BC OEL : Canada. British Columbia OEL  
 CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants  
 ACGIH / TWA : 8-hour, time-weighted average  
 CA AB OEL / TWA : 8-hour Occupational exposure limit  
 CA BC OEL / TWA : 8-hour time weighted average  
 CA QC OEL / TWAEV : Time-weighted average exposure value

**STAPA HYDROXAL E 4000 Aluminium Paste**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000024321	Date of first issue: 03/27/2018

---

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 03/27/2018

The information provided in this Material 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.

CA / Z8