

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

## STAPA IL HYDROLANS 422 Aluminium Paste

Version 5.0

Revision Date 16.01.2024

Print Date 18.01.2024

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

#### 1.1 Product identifier

Trade name : STAPA IL HYDROLAN S 422 Aluminium Paste  
Material number : 022575GD0

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

This information is not available.

#### 1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH  
Guntersthal 4  
91235 Hartenstein  
Telephone : +499152770  
Telefax : +499152777008  
E-mail address : [msds.eckart@altana.com](mailto: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

: Flammable solids, Category 1, H228  
Serious eye damage/eye irritation, Category 2A, H319  
Specific target organ toxicity - single exposure, Category 3,

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Central nervous system, H336

**GHS-Labeling**

Symbol(s)



Signal word

: Danger

Hazard statements

 : H228: Flammable solid.  
 H319: Causes serious eye irritation.  
 H336: May cause drowsiness or dizziness.

Precautionary statements

 : **Prevention:**  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
 P261 Avoid breathing dust.  
 P264 Wash skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
 P304 + P340 + P319 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P317 If eye irritation persists: Get medical help.  
 P370 + P378 In case of fire: Use for extinction: Special powder for metal fires.  
 P370 + P378 In case of fire: Use for extinction: Dry sand.  
**Storage:**  
 P403 + P233 Store in a well-ventilated place. Keep container

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tightly closed.  
P405 Store locked up.

**Disposal:**

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

**Hazardous components which must be listed on the label**

Identification	CAS-No.
propan-2-ol	67-63-0
Solvent naphtha (petroleum), light arom.	64742-95-6

**SECTION 3: Composition/information on ingredients**

Substance No. :

**Hazardous components**

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	50 - 100
propan-2-ol	67-63-0 200-661-7	Flam. Liq.;2;H225 Acute Tox.;5;H303 Acute Tox.;5;H313 ;2A;H319 STOT SE;3;H336	25 - 50
ethanol	64-17-5 200-578-6	Flam. Liq.;2;H225 ;2A;H319	1 - 10
Naphtha (petroleum), hydrotreated heavy	64742-48-9 918-481-9	Flam. Liq.;4;H227 Asp. Tox.;1;H304	1 - 10

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Solvent naphtha (petroleum), light arom.	64742-95-6 918-668-5	Flam. Liq.;3;H226 Acute Tox.;5;H303 Acute Tox.;5;H313 STOT SE;3;H335, H336 Asp. Tox.;1;H304 Aquatic Chronic;2;H411	1 - 2,5
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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**

- General advice : Move the victim to fresh air.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : 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 on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- 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**

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This information is not available.

### 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 : Carbon dioxide (CO<sub>2</sub>), ABC powder, 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 : 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.  
Use personal protective equipment.

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Avoid dust formation.  
Remove all sources of ignition.

**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.

This information is not available.

**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.

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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 exposure - obtain special instructions before use. 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 : Earthing of containers and apparatuses is essential. Take



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**Germany:**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
propan-2-ol	67-63-0	AGW	200 ppm 500 mg/m <sup>3</sup>	2006-01-01	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
ethanol	64-17-5	AGW	200 ppm 380 mg/m <sup>3</sup>	2018-06-07	DE TRGS 900
Peak-limit: excursion factor (category)		4;(II)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).When 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 <sup>3</sup>	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			



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		amorphous silica, including pyrogenic silica and in wet processes 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			
Naphtha (petroleum), hydrotreated heavy	64742-48-9	AGW	300 mg/m <sup>3</sup>	2017-11-30	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixtures Commission for dangerous substances See also No. 2.9 of the TRGS 900			
Solvent naphtha (petroleum), light arom.	64742-95-6	AGW	100 mg/m <sup>3</sup>	2009-02-16	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixtures Commission for dangerous substances See also No. 2.9 of the TRGS 900			

**United States of America (USA):**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	TWA (Respirable)	5 mg/m <sup>3</sup>	2013-10-08	
aluminium	7429-90-5	TWA (total dust)	15 mg/m <sup>3</sup>	2012-07-01	
aluminium	7429-90-5	TWA (total)	10 mg/m <sup>3</sup>	2013-10-08	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m <sup>3</sup>	2012-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	PEL (Total dust)	10 mg/m <sup>3</sup>	2014-11-26	

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aluminium	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2008-01-01	
aluminium	7429-90-5	TWA	5 mg/m3	2005-09-01	
aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01	
aluminium	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2013-03-01	
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02	
aluminium	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02	
aluminium	7429-90-5	TWA (powder)	5 mg/m3	1989-01-19	
propan-2-ol	67-63-0	TWA	200 ppm	2013-03-01	
propan-2-ol	67-63-0	STEL	400 ppm	2013-03-01	
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m3	2013-10-08	
propan-2-ol	67-63-0	ST	500 ppm 1 225 mg/m3	2013-10-08	
propan-2-ol	67-63-0	TWA	400 ppm 980 mg/m3	1997-08-04	
propan-2-ol	67-63-0	TWA	400 ppm	1989-01-19	

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			980 mg/m <sup>3</sup>		
propan-2-ol	67-63-0	STEL	500 ppm 1 225 mg/m <sup>3</sup>	1989-01-19	
propan-2-ol	67-63-0	PEL	400 ppm 980 mg/m <sup>3</sup>	2014-11-26	
propan-2-ol	67-63-0	STEL	500 ppm 1 225 mg/m <sup>3</sup>	2014-11-26	
ethanol	64-17-5	TWA	1 000 ppm	2009-01-01	
ethanol	64-17-5	TWA	1 000 ppm 1 900 mg/m <sup>3</sup>	2013-10-08	
ethanol	64-17-5	TWA	1 000 ppm 1 900 mg/m <sup>3</sup>	1997-08-04	
ethanol	64-17-5	TWA	1 000 ppm 1 900 mg/m <sup>3</sup>	1989-01-19	
ethanol	64-17-5	STEL	1 000 ppm	2013-03-01	
ethanol	64-17-5	PEL	1 000 ppm 1 900 mg/m <sup>3</sup>	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 <sup>3</sup> / %SiO <sub>2</sub>	2012-07-01	
silicon dioxide	7631-86-9	TWA	6 mg/m <sup>3</sup>	2013-10-08	
silicon dioxide	7631-86-9	PEL	6 mg/m <sup>3</sup>	2014-11-26	
Naphtha (petroleum), hydrotreated heavy	64742-48-9	TWA	500 ppm 2 000 mg/m <sup>3</sup>	2007-01-01	
Naphtha (petroleum), hydrotreated heavy	64742-48-9	TWA	400 ppm 1 600 mg/m <sup>3</sup>	1989-01-19	
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2 000 mg/m <sup>3</sup>	2007-01-01	
Solvent naphtha	64742-95-6	TWA	200 mg/m <sup>3</sup>	2010-03-01	

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(petroleum), light arom.					
Solvent naphtha (petroleum), light arom.	64742-95- 6	TWA	400 ppm 1 600 mg/m <sup>3</sup>	1989-01-19	

### 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 (butyl-rubber)
- 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 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 : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Long sleeved clothing
- Safety shoes
- : Choose body protection according to the amount and

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Respiratory protection : concentration of the dangerous substance at the work place.  
 : Use suitable breathing protection if workplace concentration requires.  
 : In the case of dust or aerosol formation use respirator with an approved filter.

**Environmental exposure controls**

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.

**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

Appearance : Pasty solid  
 Colour : silver  
 Odour : solvent-like  
 pH : substance/mixture is non-soluble (in water)  
 Freezing point : No data available  
 Boiling point/boiling range : 82 - 83 °C  
 Flash point : No data available  
 Bulk density : No data available  
 Flammability (solid, gas) : The substance or mixture is a flammable solid with the category 1.  
 Auto-flammability : not auto-flammable  
 Upper explosion limit : No data available

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Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: 1,3 - 2,0 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: partly miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
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 Vapours may form explosive mixture with air.

**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.

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Contact with acids and alkalis may release hydrogen.  
Mixture reacts slowly with water resulting in evolution of  
hydrogen.  
Vapours may form explosive mixture with air.

Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Conditions to avoid : Do not allow to dry.  
Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents  
Highly halogenated compounds

### 10.6 Hazardous decomposition products

Other information : No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Components:

#### propan-2-ol :

Acute oral toxicity : LD50 Rat: > 2 000 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 2 000 mg/kg

#### ethanol :

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Acute oral toxicity : LD50 Rat, male and female: 10 470 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 Rat, male and female: 124,7 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Method: OECD Test Guideline 403

**Naphtha (petroleum), hydrotreated heavy :**

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

Acute inhalation toxicity : LC50 Rat: Test atmosphere: vapour

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

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

**Solvent naphtha (petroleum), light arom. :**

Acute oral toxicity : LD50 Rat: 3 492 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 3 160 mg/kg



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### Skin corrosion/irritation

#### Product

May cause skin irritation in susceptible persons.

### Serious eye damage/eye irritation

#### Product

Eye irritation

### Respiratory or skin sensitisation

#### Product

Result: Does not cause skin sensitisation.

### 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

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### Aspiration toxicity

No data available

### Further information

#### Product

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.,  
Concentrations substantially above the TLV value may cause narcotic effects., Solvents may  
degrease the skin.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

**Solvent naphtha (petroleum), light arom. (64742-95-6) :**

#### **Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

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**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects****Product:**Additional ecological information : No data available

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**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.  
Do not burn, or use a cutting torch on, the empty drum.  
In accordance with local and national regulations.

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**SECTION 14: Transport information****14.1 UN number**

ADR : 1325

TDG : 1325

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CFR : 1325

IMDG : 1325

IATA : 1325

**14.2 Proper shipping name**
 ADR : FLAMMABLE SOLID, ORGANIC, N.O.S.  
 (Aluminium pigment paste )

 TDG : FLAMMABLE SOLID, ORGANIC, N.O.S.  
 (Aluminium pigment paste )

 CFR : FLAMMABLE SOLIDS, ORGANIC, N.O.S.  
 (Aluminum pigment paste )

 IMDG : FLAMMABLE SOLID, ORGANIC, N.O.S.  
 (,Aluminium pigment paste )

 IATA : FLAMMABLE SOLID, ORGANIC, N.O.S.  
 (Aluminium pigment paste)
**14.3 Transport hazard class**

ADR : 4.1

TDG : 4.1

CFR : 4.1

IMDG : 4.1

IATA : 4.1

**14.4 Packing group**

ADR

Packaging group : II

Classification Code : F1

Hazard Identification Number : 40

Labels : 4.1

Tunnel restriction code : (E)

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**TDG**

Packaging group : II  
Labels : 4.1

**CFR**

Packaging group : II  
Labels : 4.1

**IMDG**

Packaging group : II  
Labels : 4.1  
EmS Number : F-G, S-G

**IATA**

Packing instruction (cargo aircraft) : 448  
Packing instruction (passenger aircraft) : 445  
Packing instruction (LQ) : Y441  
Packaging group : II  
Labels : 4.1

**14.5 Environmental hazards**

**IMDG** :

**14.6 Special precautions for user****IMDG Code- segregation group:**

: IMDG Code segregation group 15 - Powdered metals

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

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No data available

### 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
REACH - List of substances subject to authorisation (Annex XIV)	: 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
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (aluminium powder (stabilised)) (propan-2-ol) (ethanol) (Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha) (Solvent naphtha (petroleum), light arom.)

#### 15.2 Chemical safety assessment

No data available

### SECTION 16: Other information

#### Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.

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

## STAPA IL HYDROLANS 422 Aluminium Paste

Version 5.0

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H227	: Combustible liquid.
H228	: Flammable solid.
H303	: May be harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H313	: May be harmful in contact with skin.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H411	: Toxic to aquatic life with long lasting effects.

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