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

1.1 Product identifier

Trade name: STAPA IL HYDROLAN 9157 55900/G Aluminium Paste

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
Guentersthal 4
91235 Hartenstein
Telephone: +4991527770
Telefax: +499152777008
E-mail address: msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number

GBK Gefahrgut Büro 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

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable solids, Category 1: H228: Flammable solid.
Eye irritation, Category 2: H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3: H336: May cause drowsiness or dizziness.

Classification (67/548/EEC, 1999/45/EC)

Highly flammable: R11: Highly flammable.
Irritant: R36: Irritating to eyes.
R67: Vapours may cause drowsiness and dizziness.

2.2 Label elements
STAPA IL HYDROLAN 9157 55900/G Aluminium Paste

Version 1.2 Revision Date 02.09.2014 Print Date 19.11.2018

Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms:

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/sparks/open flames/hot surfaces. - No smoking.
- P240 Ground/bond container and receiving equipment.
- P280 Wear protective gloves/eye protection/face protection.
- P261 Avoid breathing vapours.

**Response:**
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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 tightly closed.

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

Hazardous components which must be listed on the label:
67-63-0 propan-2-ol

2.3 Other hazards
No information available.
SECTION 3: Composition/information on ingredients

3.2 Mixtures

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No. EC-No. Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5 231-072-3 01-2119529243-45</td>
<td>F; R11</td>
<td>Flam. Sol. 1; H228</td>
<td>&gt;= 50 - &lt;= 100</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>67-63-0 200-661-7 01-2119457558-25</td>
<td>F; R11 XI; R36 R67</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>&gt;= 25 - &lt; 50</td>
</tr>
</tbody>
</table>

For the full text of the R-phrases mentioned in this Section, see Section 16. 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 out of dangerous area. Show this safety data sheet to the doctor in attendance.

Move the victim to fresh air. Do not leave the victim unattended.

**If inhaled**

Consult a physician after significant exposure. If unconscious place in recovery position and seek medical advice.

**In case of skin contact**

If on skin, rinse well with water. If on clothes, remove clothes. 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. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Immediately flush eye(s) with plenty of water.
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

Symptoms: No information available.
Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

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

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 fire fighting if necessary.

Further information:
- Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 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: Use personal protective equipment. Avoid dust formation. Remove all sources of ignition. Evacuate personnel to safe areas. Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions: 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 materials for containment and cleaning up

Methods for cleaning up: Do not flush with water. Keep in suitable, closed containers for disposal. Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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: 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 fire and explosion: Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.

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:**
- No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) 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.

**Further information on storage conditions:**
- Protect from humidity and water.

**Advice on common storage:**
- Do not store near acids. Do not store together with oxidizing and self-igniting products. Keep away from oxidising agents and strongly acid or alkaline materials. Never allow product to get in contact with water during storage. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**German storage class**: 4.1B, Flammable solid hazardous materials

**Other data**: No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

This information is not available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

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 above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Limit Type</th>
<th>Limit Value</th>
<th>Date</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA (Respirable)</td>
<td>4 mg/m(^3)</td>
<td>2011-12-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td>aluminium</td>
<td>7429-90-5</td>
<td>TWA (Inhalable)</td>
<td>10 mg/m(^3)</td>
<td>2005-04-06</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

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 above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

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 MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. 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 above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. 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 MDHS14/3. 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 should be used.
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>400 ppm 999 mg/m³</td>
<td>2006-09-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>500 ppm 1,250 mg/m³</td>
<td>2006-09-01</td>
<td>GB EH40</td>
</tr>
<tr>
<td>silicon dioxide</td>
<td>7631-86-9</td>
<td>TWA (Inhalable)</td>
<td>6 mg/m³</td>
<td>2007-08-01</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>

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 MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. 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 above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. 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 MDHS14/3. 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 should be used.

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three times the long-term exposure should be used

**DNEL:**
propan-2-ol (67-63-0)

End Use: Workers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 888 mg/kg

**DNEL:**
propan-2-ol (67-63-0)

End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 500 mg/m³

**DNEL:**
propan-2-ol (67-63-0)

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 26 mg/kg

**DNEL:**
propan-2-ol (67-63-0)

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 319 mg/kg

**DNEL:**
propan-2-ol (67-63-0)

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 89 mg/m³

**PNEC:**
propan-2-ol (67-63-0)

Soil
Value: 28 mg/kg

**PNEC:**
propan-2-ol (67-63-0)

Fresh water
Value: 140.9 mg/l

**PNEC:**
propan-2-ol (67-63-0)

Fresh water sediment
Value: 552 mg/kg

**PNEC:**
propan-2-ol (67-63-0)

Marine water
Value: 140.9 mg/l
8.2 Exposure controls

**Personal protective equipment**

*Eye protection* : Eye wash bottle with pure water
   Wear face-shield and protective suit for abnormal processing problems.

   : Goggles

*Hand protection*

**Material** : Solvent-resistant gloves (butyl-rubber)

**Remarks** : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

   : 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* : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter.

Use suitable breathing protection if workplace concentration requires.

Environmental exposure controls
General advice: 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.

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: solvent-like
pH: no data available
Freezing point: no data available
Boiling point/boiling range: 82 °C
Flash point: 13 °C
Bulk density: no data available
Flammability (solid, gas): no data available
Auto-flammability: no data available
Upper explosion limit: no data available
Lower explosion limit: no data available
Vapour pressure : no data available
Density : 1.3 - 2.0 g/cm³
Water solubility : no data available
Solubility in other solvents : no data available
Partition coefficient: n-octanol/water : no data available
Auto-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

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 : Contact with acids and alkalis may release hydrogen.
Stable under recommended storage conditions.

10.4 Conditions to avoid
Conditions to avoid : Heat, flames and sparks.
Do not allow evaporation to dryness.

10.5 Incompatible materials
Materials to avoid : Acids
Bases
Oxidizing agents
10.6 Hazardous decomposition products

Other information : no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity

no data available

Skin corrosion/irritation

Product
May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product
May cause irreversible eye damage.

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
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no data available

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.

SECTION 12: Ecological information

12.1 Toxicity
no data available

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 information: no data available
SECTION 13: Disposal considerations

European Waste Catalogue  :  12 01 04 - non-ferrous metal dust and particles

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.  
                          Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADR  :  1325  
IMDG  :  1325  
IATA  :  1325

14.2 Proper shipping name

ADR  :  FLAMMABLE SOLID, ORGANIC, N.O.S.  
      (Aluminium 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  
IMDG  :  4.1  
IATA  :  4.1
14.4 Packing group

ADR
Packaging group : II
Classification Code : F1
Hazard identification No : 40
Labels : 4.1
Tunnel restriction code : (E)

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

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Chemical Safety Assessment
SECTION 16: Other information

Full text of R-Phrases

R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225 Highly flammable liquid and vapour.
H228 Flammable solid.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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.