

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STAPA HYDROMIC 214 Aluminium Paste

Version 3.0      Revision Date: 04.12.2019      SDS Number: 102000009825      Print Date: 08.08.2020  
Date of first issue: 14.02.2014

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

#### 1.1 Product identifier

Trade name : STAPA HYDROMIC 214 Aluminium Paste  
Product code : 053427G60

#### 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 :

E-mail address of person responsible for the SDS : msds.eckart@altana.com

#### 1.4 Emergency telephone number

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|  |  |
|--|--|
| Skin irritation, Category 2                    | H315: Causes skin irritation.                            |
| Eye irritation, Category 2                     | H319: Causes serious eye irritation.                     |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

#### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements : **Prevention:**  
P264      Wash skin thoroughly after handling.  
P273      Avoid release to the environment.  
P280      Wear protective gloves/ eye protection/ face protection.

**Response:**  
P332 + P313      If skin irritation occurs: Get medical advice/ attention.  
P337 + P313      If eye irritation persists: Get medical advice/ attention.

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

### 2.3 Other hazards

Combustible Solids

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification<br>REGULATION (EC)<br>No 1272/2008   | Concentration<br>(% w/w) |
|--|---|---|--------------------------|
| aluminium powder (stabilised)  | 7429-90-5<br>231-072-3<br>01-2119529243-45            | Flam. Sol. 1; H228  | >= 50 - <= 100           |
| Naphtha (petroleum),<br>hydrotreated heavy; Low boiling<br>point ydrogen treated naphtha | 64742-48-9<br>918-481-9                               | Asp. Tox. 1; H304   | >= 10 - < 20             |
| 2-butoxyethanol  | 111-76-2<br>203-905-0<br>01-2119475108-36             | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319 | >= 10 - < 20             |
| Solvent naphtha (petroleum),<br>light arom.  | 64742-95-6<br>918-668-5<br>01-2119486773-24           | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>STOT SE 3; H335<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411 | >= 2.5 - < 10            |
| 2-(2-heptadec-8-enyl-2-<br>imidazolin-1-yl)ethanol                                       | 95-38-5<br>202-414-9<br>01-2119777867-13-<br>0000     | Acute Tox. 4; H302<br>Skin Corr. 1C; H314<br>STOT RE 2; H373<br>Aquatic Acute 1;<br>H400                    | >= 1 - < 2.5             |

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|                                 |   |                                       |      |
|---------------------------------|---|---------------------------------------|------|
|                                 |   | Aquatic Chronic 1;<br>H410            |      |
| WEL substance :                 |   |                                       |      |
| 2-methoxy-1-methylethyl acetate | 108-65-6<br>203-603-9<br>01-2119475791-29 | Flam. Liq. 3; H226<br>STOT SE 3; H336 | < 10 |

For explanation of abbreviations 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 : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
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.  
Take victim immediately to hospital.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes skin irritation.  
Causes serious eye irritation.

#### 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 : Water  
Foam  
ABC powder  
Carbon dioxide (CO<sub>2</sub>)

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

#### 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 : 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.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Evacuate personnel to safe areas.  
Use personal protective equipment.  
Remove all sources of ignition.

#### 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 material for containment and cleaning up

Methods for cleaning up : Do not flush with water.  
Keep in suitable, closed containers for disposal.

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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.

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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.  
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.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
- 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.
- 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.
- Further information on : No decomposition if stored and applied as directed.
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storage stability

### 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/m <sup>3</sup> | 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 <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 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/m <sup>3</sup>  | 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 <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 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 dust)          | 10 mg/m <sup>3</sup> | GB EH40 |
| 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 <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 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 |                               |                      |         |

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|                                 |  |                       |                                  |            |
|---------------------------------|--|-----------------------|----------------------------------|------------|
|                                 | 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 dust) | 4 mg/m <sup>3</sup>              | GB EH40    |
| 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 <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 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. |                       |                                  |            |
| 2-butoxyethanol                 | 111-76-2   | TWA                   | 20 ppm<br>98 mg/m <sup>3</sup>   | 2000/39/EC |
| Further information             | Identifies the possibility of significant uptake through the skin, Indicative  |                       |                                  |            |
|                                 |  | STEL                  | 50 ppm<br>246 mg/m <sup>3</sup>  | 2000/39/EC |
| Further information             | Identifies the possibility of significant uptake through the skin, Indicative  |                       |                                  |            |
|                                 |  | TWA                   | 25 ppm                           | GB EH40    |
| Further information             | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.  |                       |                                  |            |
|                                 |  | STEL                  | 50 ppm                           | GB EH40    |
| Further information             | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.  |                       |                                  |            |
| 2-methoxy-1-methylethyl acetate | 108-65-6   | TWA                   | 50 ppm<br>275 mg/m <sup>3</sup>  | 2000/39/EC |
| Further information             | Identifies the possibility of significant uptake through the skin, Indicative  |                       |                                  |            |
|                                 |  | STEL                  | 100 ppm<br>550 mg/m <sup>3</sup> | 2000/39/EC |
| Further information             | Identifies the possibility of significant uptake through the skin, Indicative  |                       |                                  |            |



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|                     |   |      |                                  |         |
|---------------------|---|------|----------------------------------|---------|
|                     |   | TWA  | 50 ppm<br>274 mg/m <sup>3</sup>  | GB EH40 |
| Further information | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |      |                                  |         |
|                     |   | STEL | 100 ppm<br>548 mg/m <sup>3</sup> | GB EH40 |
| Further information | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |      |                                  |         |

### Biological occupational exposure limits

| Substance name  | CAS-No.  | Control parameters   | Sampling time | Basis          |
|-----------------|----------|--|---------------|----------------|
| 2-butoxyethanol | 111-76-2 | butoxyacetic acid:<br>240 Millimoles per<br>mole Creatinine<br>(Urine) | After shift   | GB EH40<br>BAT |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name  | End Use   | Exposure routes            | Potential health effects   | Value                  |
|---|-----------|----------------------------|----------------------------|------------------------|
| Naphtha (petroleum),<br>hydrotreated heavy;<br>Low boiling point<br>hydrogen treated<br>naphtha | Workers   | Skin contact               | Long-term systemic effects | 300 mg/kg              |
|   | Consumers | Ingestion                  | Long-term systemic effects | 300 mg/kg              |
|   | Consumers | Skin contact               | Long-term systemic effects | 300 mg/kg              |
| 2-butoxyethanol   | Consumers | Inhalation                 | Long-term systemic effects | 900 mg/m <sup>3</sup>  |
|   | Workers   | Inhalation                 | Long-term systemic effects | 98 mg/m <sup>3</sup>   |
|   | Workers   | Inhalation                 | Acute systemic effects     | 1091 mg/m <sup>3</sup> |
|   | Workers   | Skin contact               | Long-term systemic effects | 125 mg/kg              |
|   | Workers   | Skin contact               | Acute systemic effects     | 89 mg/kg               |
|   | Consumers | Inhalation                 | Long-term systemic effects | 59 mg/m <sup>3</sup>   |
|   | Consumers | Inhalation                 | Acute systemic effects     | 426 mg/m <sup>3</sup>  |
|   | Consumers | Skin contact               | Long-term systemic effects | 75 mg/kg               |
|   | Consumers | Skin contact               | Acute systemic effects     | 89 mg/kg               |
| Consumers   | Ingestion | Long-term systemic effects | 6.3 mg/kg                  |                        |
| Consumers   | Ingestion | Acute systemic effects     | 26.7 mg/kg                 |                        |



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|  |           |              |                            |                       |
|--|-----------|--------------|----------------------------|-----------------------|
| Solvent naphtha (petroleum), light arom. | Workers   | Inhalation   | Long-term systemic effects | 150 mg/m <sup>3</sup> |
|  | Workers   | Skin contact | Long-term systemic effects | 25 mg/kg              |
| 2-methoxy-1-methylethyl acetate          | Workers   | Skin contact | Long-term systemic effects | 796 mg/kg             |
|  | Workers   | Inhalation   | Long-term systemic effects | 275 mg/m <sup>3</sup> |
|  | Consumers | Ingestion    | Long-term systemic effects | 36 mg/kg              |
|  | Consumers | Skin contact | Long-term systemic effects | 320 mg/kg             |
|  | Consumers | Inhalation   | Long-term systemic effects | 33 mg/m <sup>3</sup>  |
|  | Consumers | Inhalation   | Long-term local effects    | 33 mg/m <sup>3</sup>  |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                  | Environmental Compartment | Value       |
|---------------------------------|---------------------------|-------------|
| 2-butoxyethanol                 | Fresh water               | 8.8 mg/l    |
|                                 | Fresh water sediment      | 34.6 mg/kg  |
|                                 | Marine water              | 0.88 mg/l   |
|                                 | Marine sediment           | 3.46 mg/kg  |
|                                 | STP                       | 463 mg/l    |
|                                 | Soil                      | 2.33 mg/kg  |
|                                 | Sporadic Release          | 26.4 mg/l   |
| 2-methoxy-1-methylethyl acetate | Secondary Poisoning       | 20 mg/kg    |
|                                 | Soil                      | 0.29 mg/kg  |
|                                 | Fresh water               | 0.635 mg/l  |
|                                 | Fresh water sediment      | 3.29 mg/kg  |
|                                 | Marine water              | 0.0635 mg/l |
|                                 | Marine sediment           | 0.329 mg/kg |
|                                 | STP                       | 100 mg/l    |
|                                 | periodical release        | 6.35 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.

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 protective glove producer and this has to be observed. Please observe the instructions regarding permeability and

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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 : 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 : In the case of dust or aerosol formation use respirator with an approved filter.  
Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Pasty solid  
Colour : No data available  
Odour : No data available  
Odour Threshold : No data available  
pH : No data available  
Freezing point : No data available  
Boiling point/boiling range : No data available  
Flash point : No data available

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Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

Self-ignition : not auto-flammable

Auto-ignition temperature : No data available

Smoldering temperature : No data available

Decomposition temperature : No data available

Explosive properties : Not explosive

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 : No data available

Bulk density : No data available

Water solubility : No data available

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

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### 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 : No data available  
Do not allow to dry.

#### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents  
Highly halogenated compounds

#### 10.6 Hazardous decomposition products

Contact with water or humid air : This information is not available.

Thermal decomposition : This information is not available.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified based on available information.

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h

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Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

### Components:

#### **aluminium powder (stabilised):**

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

#### **Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha:**

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

Acute inhalation toxicity : LC50 (Rat): Test atmosphere: vapour  
Remarks: 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

#### **2-butoxyethanol:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate

Acute inhalation toxicity : > 3.1 mg/l  
Exposure time: 1 h  
Test atmosphere: vapour

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Converted acute toxicity point estimate

Assessment: The component/mixture is moderately toxic after single contact with skin.

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

Acute oral toxicity : LD50 (Rat): 3,492 mg/kg

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

#### **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

### **Skin corrosion/irritation**

Causes skin irritation.

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### **Product:**

Remarks: May cause skin irritation in susceptible persons.

### **Components:**

#### **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:**

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

Remarks: Extremely corrosive and destructive to tissue.

#### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Product:**

Remarks: May cause irreversible eye damage.

### **Components:**

#### **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:**

Result: No eye irritation

Remarks: May cause irreversible eye damage.

#### **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.

### **Components:**

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

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

#### **2-methoxy-1-methylethyl acetate:**

Assessment: May cause drowsiness or dizziness.

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### STOT - repeated exposure

Not classified based on available information.

#### Components:

#### **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:**

Assessment: May cause damage to organs through prolonged or repeated exposure.

### Aspiration toxicity

Not classified based on available information.

#### Components:

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

May be fatal if swallowed and enters airways.

### Further information

#### Product:

Remarks: No data available

#### Components:

#### **Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:**

Remarks: Solvents may degrease the skin.

#### **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:**

Remarks: No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### **Ecotoxicology Assessment**

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

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

#### Components:

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

#### **Ecotoxicology Assessment**

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

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### **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:**

M-Factor (Short-term (acute) aquatic hazard) : 10

M-Factor (Long-term (chronic) aquatic hazard) : 1

### **Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very 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

### **12.5 Results of PBT and vPvB assessment**

Not relevant

### **12.6 Other adverse effects**

#### **Product:**

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

#### **Components:**

### **Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:**

Additional ecological information : No data available

### **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol:**

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.

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.

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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.

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### SECTION 14: Transport information

#### 14.1 UN number

#### 14.2 UN proper shipping name

#### 14.3 Transport hazard class(es)

#### 14.4 Packing group

#### 14.5 Environmental hazards

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

#### 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

#### 15.2 Chemical safety assessment

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### SECTION 16: Other information

#### Full text of H-Statements

H226 : Flammable liquid and vapour.  
H228 : Flammable solid.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.

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H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Flam. Sol. : Flammable solids  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 BAT : UK. Biological monitoring guidance values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute 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; AICS - Australian Inventory of Chemical Substances; 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; 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

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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; 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.

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