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

1.1 Product identifier
- Trade name: STAPA METALLUX 2153 Aluminium Paste
- Material number: 057634G60

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: +499152770
- Telefax: +499152777008
- E-mail address of person responsible for the SDS: msds.eckart@altana.com

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)
  Chronic aquatic toxicity, Category 3
  H412: Harmful to aquatic life with long lasting effects.

- Classification (67/548/EEC, 1999/45/EC)
  R67: Vapours may cause drowsiness and dizziness.
  Dangerous for the environment
  R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.


2.3 Other hazards

Combustible Solids

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</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>low boiling point hydrogen treated naphtha</td>
<td>64742-48-9 918-481-9 01-2119457273-39</td>
<td>Xn; R65</td>
<td>Asp. Tox. 1; H304</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6 918-668-5 01-2119455851-35</td>
<td>Xn; R65 Xi; R37 N; R51/53 R10 R66 R67</td>
<td>Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335, H336 Aquatic Chronic 2; H411</td>
<td>&gt;= 5 - &lt; 20</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.
For explanation of abbreviations see section 16.
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:
- Move the victim to fresh air.
- Do not leave the victim unattended.
- No hazards which require special first aid measures.

If inhaled:
- If unconscious place in recovery position and seek medical advice.
- If symptoms persist, call a physician.

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

In case of eye contact:
- Immediately flush eye(s) with plenty of water.
- Remove contact lenses.
- If 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

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:
- Water
- Foam
- ABC powder
- Carbon dioxide (CO2)

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.

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. Remove all sources of ignition. Avoid dust formation.

6.2 Environmental precautions

Environmental precautions: Prevent product from entering drains. 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: Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

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.

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
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.

Hygiene measures: General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking.

Electrical installations / working materials must comply with the technological safety standards.

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.

Storage class (TRGS 510): 11, Combustible Solids

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

7.3 Specific end use(s)
This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis (Version Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>NGV (Total)</td>
<td>5 mg/m³</td>
<td>SE AFS (2011-12-16)</td>
</tr>
</tbody>
</table>

Further information: Inhalable dust refers to the dust fraction as defined in the Swedish Standard SS-EN 481, Workplace Atmospheres - Size fraction definitions for measurement of airborne particles, 1st ED., 1993., Section 2.3 and having sampling characteristics as specified in paragraph 5.1. Respirable dust refers to the dust fraction as defined in the Swedish Standard SS-EN 481, Workplace Atmospheres - Size fraction definitions for measurement of airborne particles, 1st ED., 1993., Section 2.11 and having sampling characteristics as specified in paragraph 5.3. Total dust refers to all the particles (aerosols) trapped in a filter in the sampling apparatus described in Methods, Sampling of total dust and respirable dust, method nr 1010, published by the National Board of Occupational Safety and Health, now Work...
Environment Authority. The filter diameter shall normally be 37 mm but can also be 25 mm. Despite its name, not the total amount of airborne particles is measured by this method.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Code</th>
<th>Limit Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
<td>NGV</td>
<td>2 mg/m³</td>
<td>SE AFS (2011-12-16)</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
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<tr>
<td>Inhalable dust refers to the dust fraction</td>
<td>NGV</td>
<td></td>
<td></td>
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<tr>
<td>as defined in the Swedish Standard</td>
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<tr>
<td>SS-EN 481, Workplace Atmospheres - Size fraction</td>
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<tr>
<td>definitions for measurement of airborne</td>
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<tr>
<td>particles, 1st ED., 1993., Section 2.3 and</td>
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<tr>
<td>having sampling characteristics as specified in</td>
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<tr>
<td>paragraph 5.1. Respirable dust refers to the</td>
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<tr>
<td>dust fraction as defined in the Swedish Standard</td>
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<tr>
<td>SS-EN 481, Workplace Atmospheres - Size fraction</td>
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<tr>
<td>definitions for measurement of airborne particles</td>
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<tr>
<td>, 1st ED., 1993., Section 2.11 and having</td>
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<tr>
<td>sampling characteristics as specified in</td>
<td></td>
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<tr>
<td>paragraph 5.3. Total dust refers to all the</td>
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<tr>
<td>particles (aerosols) trapped in a filter in the</td>
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<tr>
<td>sampling apparatus described in Methods, Sampling</td>
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<tr>
<td>of total dust and respirable dust, method nr</td>
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<tr>
<td>1010, published by the National Board of</td>
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<tr>
<td>Occupational Safety and Health, now Work</td>
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<tr>
<td>Environment Authority. The filter diameter</td>
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<tr>
<td>shall normally be 37 mm but can also be 25 mm.</td>
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<tr>
<td>Despite its name, not the total amount of</td>
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</tr>
<tr>
<td>airborne particles is measured by this method.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>low boiling point hydrogen treated naphtha</td>
<td>NGV</td>
<td>350 mg/m³</td>
<td>SE AFS (2015-11-12)</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicative short term limit value shall be used</td>
<td>KTV</td>
<td>500 mg/m³</td>
<td>SE AFS (2015-11-12)</td>
</tr>
<tr>
<td>as a recommended maximum value and should not be</td>
<td></td>
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<tr>
<td>exceeded. The limit value refers to aliphatic</td>
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<tr>
<td>hydrocarbons in vapour form, i.e. up to 12</td>
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<tr>
<td>carbon atoms. For exposure to hydrocarbons in</td>
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<tr>
<td>aerosol form, particles or liquid droplets, the</td>
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<tr>
<td>limit value for organic dust and mist, 5 mg/m³,</td>
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<tr>
<td>is applicable. This limit does not apply to</td>
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<tr>
<td>aromatic solvent naphtha (&lt;2 weight percent)</td>
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<tr>
<td>who have their own threshold.</td>
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</tr>
<tr>
<td>low boiling point hydrogen treated naphtha</td>
<td>NGV</td>
<td>100 ppm</td>
<td>SE AFS (2015-11-12)</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicative short term limit value shall be used</td>
<td>KTV</td>
<td>300 mg/m³</td>
<td>SE AFS (2015-11-12)</td>
</tr>
<tr>
<td>as a recommended maximum value and should not be</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>exceeded. Substance can be easily absorbed</td>
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<tr>
<td>through the skin. Refers white spirits which are</td>
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<tr>
<td>preferably used as solvents and thinners for</td>
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</tr>
<tr>
<td>paint and varnish products, i.e. petroleum</td>
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<tr>
<td>naphtha with its main components in the range of</td>
<td></td>
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<tr>
<td>C7 to C12, and with up to 22 weight percent</td>
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<td></td>
</tr>
<tr>
<td>aromatics (up to about 20 volume percent) and</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>less than 0.1 weight percent benzene. See also</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>note 40 on petroleum naphtha. Stated approximate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>value in ppm is based on white spirit to 22 weight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>percent aromatics.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Further information

Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded, Substance can be easily absorbed through the skin. Refers white spirits which are preferably used as solvents and thinners for paint and varnish products, i.e. petroleum naphtha with its main components in the range of C7 to C12, and with up to 22 weight percent aromatics (up to about 20 volume percent) and less than 0.1 weight percent benzene. See also note 40 on petroleum naphtha. Stated approximate value in ppm is based on white spirit to 22 weight percent aromatics.
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

STAPA METALLUX 2153 Aluminium Paste

Version 2.1 Revision Date: 11.04.2017 SDS Number: 102000020055 Print Date: 20.11.2018 Date of first issue: 14.01.2014

通过皮肤。指代白精神，主要作为油漆和清漆产品的溶剂和稀释剂，即石油蜡，其中的主要成分在C7到C12的范围内，含22重量百分比的芳烃（22体积百分比）和少于0.1重量百分比的苯。见注40有关石油蜡的详细信息。所述的近似值是基于白精神的22重量百分比的芳烃。

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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy (64742-48-9)</td>
<td>Workers</td>
<td>Skin contact</td>
<td>long term – systemic</td>
<td>300 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>long term – systemic</td>
<td>300 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>long term – systemic</td>
<td>300 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>long term – systemic</td>
<td>900 mg/m³</td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls

**Personal protective equipment**

Eye protection : Safety glasses

Hand protection

- **Material** : Solvent-resistant gloves

Remarks : Take note of the information given by the producer concerning permeability and breakthrough times, and of special workplace conditions (mechanical strain, duration of contact). The exact breakthrough time can be obtained from the protective glove producer and this must 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 : Long sleeved clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

### Environmental exposure controls
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Appearance**: Pasty solid
- **Colour**: Silver
- **Odour**: Characteristic
- **Odour Threshold**: No data available
- **pH**: No data available
- **Freezing point**: No data available
- **Boiling point/boiling range**: No data available
- **Flash point**: No data available
- **Evaporation rate**: No data available
- **Flammability (solid, gas)**: Combustible solids
- **Auto-flammability**: Not auto-flammable
- **Upper explosion limit**: No data available
- **Lower explosion limit**: No data available
- **Vapour pressure**: No data available
- **Relative vapour density**: No data available
- **Relative density**: No data available
- **Density**: 1.3 - 2.0 g/cm³
- **Bulk density**: No data available
- **Solubility(ies)**: No data available
  - Water solubility: Insoluble
  - Solubility in other solvents: No data available
  - Partition coefficient: n-octanol/water: No data available
  - Ignition temperature: No data available
  - Decomposition temperature: No data available
  - Viscosity, dynamic: No data available
  - Viscosity, kinematic: No data available
  - Flow time: No data available
  - Explosive properties: Not explosive
  - Oxidizing properties: 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

Water: The product should not be allowed to enter drains, water courses or the soil.
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:
- Do not allow to dry.

No data available

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

7429-90-5:
Acute inhalation toxicity: LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

64742-48-9:
Acute oral toxicity: LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity: LC50 (Rat): 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

64742-95-6:
Acute oral toxicity: LD50 (Rat): 2.000 - 5.000 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Further information

Product:
Remarks: No data available

Components:
64742-48-9:
Remarks: 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
Product:
Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

Components:
64742-48-9:
Additional ecological information : Remarks: No data available

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods
SAFETY DATA SHEET

STAPA METALLUX 2153 Aluminium Paste

Product: The product should not be allowed to enter drains, water courses or the soil. In accordance with local and national regulations.

Contaminated packaging: In accordance with local and national regulations.

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 73/78 and the IBC Code
   Not applicable for product as supplied.

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
   This information is not available.

SECTION 16: Other information

Full text of R-Phrases
R10: Flammable.
R11: Highly flammable.
R37: Irritating to respiratory system.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

Full text of H-Statements
H226: Flammable liquid and vapour.
H228: Flammable solid.
H304: May be fatal if swallowed and enters airways.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic: Chronic aquatic toxicity
Asp. Tox.: Aspiration hazard
Flam. Liq.: Flammable liquids
Flam. Sol.: Flammable solids
STOT SE: Specific target organ toxicity - single exposure

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; IECS - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; 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.
## SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

### STAPA METALLUX 2153 Aluminium Paste

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