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

1.1 Product identifier
- Trade name: ROTOVARIO 530 020 Silver
- Product code: 071759G60

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

2.2 Label elements
- 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.  

Supplemental Hazard Statements: EUH066 Repeated exposure may cause skin dryness or cracking.  

Precautionary statements:  
Prevention:  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  

Response:  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  

Hazardous components which must be listed on the label:  
ethyl acetate  

2.3 Other hazards  
None known.  

SECTION 3: Composition/information on ingredients  

3.2 Mixtures  

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Registration number</th>
<th>Classification REGULATION (EC) No 1272/2008</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5 231-072-3 013-002-00-1 01-2119529243-45</td>
<td>Flam. Sol. 1; H228</td>
<td>&gt;= 50 - &lt;= 100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>Flam. Liq. 2; H225</td>
<td>&gt;= 25 - &lt; 50</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

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.
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

None known.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.
media
Foam
Carbon dioxide (CO2)
ABC powder

5.2 Special hazards arising from the substance or mixture

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. Avoid dust formation. 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: 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.

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 fire and explosion: Earthing of containers and apparatuses is essential. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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: 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.

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.

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 storage stability: 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</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium powder (stabilised)</td>
<td>7429-90-5</td>
<td>GV (Dust)</td>
<td>0.5 mg/m³</td>
<td>DK OEL</td>
</tr>
<tr>
<td>Further information</td>
<td>List of limit values for dust. Limit values for dust have been established for concentrations of total dust and for concentrations of respirable dust. Except for wood dust, Arbejdstilsynet has not established a limit value for inhalable dust (DS/EN 481 on inhalable dust).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>GV (Respirable dust)</td>
<td>5 mg/m³</td>
<td>DK OEL</td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>List of limit values for dust. Limit values for dust have been established for concentrations of total dust and for concentrations of respirable dust. Except for wood dust, Arbejdstilsynet has not established a limit value for inhalable dust (DS/EN 481 on inhalable dust).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>GV (Dust)</td>
<td>10 mg/m³</td>
<td>DK OEL</td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>List of limit values for dust. Limit values for dust have been established for concentrations of total dust and for concentrations of respirable dust. Except for wood dust, Arbejdstilsynet has not established a limit value for inhalable dust (DS/EN 481 on inhalable dust).</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Further information</td>
<td>GV (Total dust)</td>
<td>3 mg/m³</td>
<td>DK OEL</td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>List of limit values for dust. Limit values for dust have been established for concentrations of total dust and for concentrations of respirable dust. Except for wood dust, Arbejdstilsynet has not established a limit value for inhalable dust (DS/EN 481 on inhalable dust).</td>
<td></td>
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</tr>
<tr>
<td>Further information</td>
<td>GV (Fumes)</td>
<td>5 mg/m³ (Aluminium)</td>
<td>DK OEL</td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>GV (total powder and dust)</td>
<td>5 mg/m³ (Aluminium)</td>
<td>DK OEL</td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>GV (respirable powder and dust)</td>
<td>2 mg/m³ (Aluminium)</td>
<td>DK OEL</td>
<td></td>
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<tr>
<td>ethyl acetate</td>
<td>141-78-6</td>
<td>GV</td>
<td>150 ppm 540 mg/m³</td>
<td>DK OEL</td>
</tr>
<tr>
<td>Further information</td>
<td>Guiding list of organic solvents.</td>
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<td></td>
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<tr>
<td>Further information</td>
<td>STEL</td>
<td>400 ppm 1.468 mg/m³</td>
<td>2017/164/EU</td>
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<tr>
<td>Further information</td>
<td>Indicative</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Further information</td>
<td>TWA</td>
<td>200 ppm 734 mg/m³</td>
<td>2017/164/EU</td>
<td></td>
</tr>
<tr>
<td>Further information</td>
<td>Indicative</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**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>ethyl acetate</td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – local effects</td>
<td>1468 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>short term – systemic</td>
<td>1468 mg/m³</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

ROTOVARIO 530 020 Silver

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Effects

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</tbody>
</table>

Workers

- **Inhalation**
  - long term – local effects: 734 mg/m³
  - long term – systemic effects: 734 mg/m³

Consumers

- **Inhalation**
  - short term – local effects: 734 mg/m³
  - long term – local effects: 367 mg/m³
  - long term – systemic effects: 367 mg/m³
  - short term – systemic effects: 734 mg/m³

- **Skin contact**
  - long term – systemic effects: 37 mg/kg

- **Ingestion**
  - long term – systemic effects: 4.5 mg/kg

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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl acetate</td>
<td>Soil</td>
<td>0.148 mg/kg</td>
</tr>
<tr>
<td></td>
<td>STP</td>
<td>650 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water</td>
<td>0.24 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0.024 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>1.15 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>0.115 mg/kg</td>
</tr>
</tbody>
</table>

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:
- Long sleeved clothing
- Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Respiratory protection:
- 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:
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**: characteristic
- **Odour Threshold**: No data available
- **pH**: No data available
- **Freezing point**: No data available
- **Boiling point/boiling range**: 76 °C
- **Flash point**: -4 °C
- **Evaporation rate**: No data available
- **Flammability (solid, gas)**: The substance or mixture is a flammable solid with the category 1.
- **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
Vapours may form explosive mixture with air.

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 : 2.07 g/cm³

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

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

ethyl acetate:
Acute oral toxicity : (Rat): 5.620 mg/kg

Acute inhalation toxicity : LC50 (Rat): 56 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 18.000 mg/kg
Skin corrosion/irritation

**Product:**
Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

**Product:**
Remarks: May cause irreversible eye damage.

Further information

**Product:**
Remarks: 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

**Components:**
eethyl acetate:
Toxicity to daphnia and other aquatic invertebrates: (Daphnia (water flea)): 717 mg/l

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: No data available

SECTION 13: Disposal considerations

European Waste Catalogue: 12 01 04 - non-ferrous metal dust and particles
European Waste Catalogue : 100321 - other particulates and dust (including ball-mill dust) containing dangerous substances

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.

SECTION 14: Transport information

14.1 UN number
ADR : UN 1325
IMDG : UN 1325
IATA : UN 1325

14.2 UN 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(es)
ADR : 4.1
IMDG : 4.1
IATA : 4.1

14.4 Packing group
ADR Packing group : II
Classification Code : F1
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : (E)
IMDG Packing group : II
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

ROTOVARIO 530 020 Silver

Version 1.0  Revision Date: 21.11.2018  SDS Number: 102000000393  Print Date: 26.11.2018  Date of first issue: 21.11.2018

Labels: 4.1
EmS Code: F-A, S-G
Remarks: IMDG Code segregation group 15 - Powdered metals

IATA (Cargo)
Packing instruction (cargo aircraft): 448
Packing instruction (LQ): Y441
Packing group: II
Labels: Flammable Solid

IATA (Passenger)
Packing instruction (passenger aircraft): 445
Packing instruction (LQ): Y441
Packing group: II
Labels: Flammable Solid

14.5 Environmental hazards

ADR
Environmentally hazardous: no

IMDG
Marine pollutant: no

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of Marpol 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).

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H225: Highly flammable liquid and vapour.
H228: Flammable solid.
H319: Causes serious eye irritation.
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

ROTOVARIO 530 020 Silver

Version: 1.0  Revision Date: 21.11.2018  SDS Number: 102000000393  Print Date: 26.11.2018  Date of first issue: 21.11.2018

H336 : May cause drowsiness or dizziness.

Full text of other abbreviations
Eye Irit. : Eye irritation
Flam. Liq. : Flammable liquids
Flam. Sol. : Flammable solids
STOT SE : Specific target organ toxicity - single exposure
DK OEL : Denmark. Occupational Exposure Limits
2017/164/EU / STEL : Short term exposure limit
2017/164/EU / TWA : Limit Value - eight hours
DK OEL / GV : Long term exposure limit

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 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.

DK / EN