

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

## ROTOVARIO FPG 550 113 Silver

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

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

#### 1.1 Product identifier

Trade name : ROTOVARIO FPG 550 113 Silver  
Material number : 027551G60

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

This information is not available.

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

Company : ECKART GmbH  
Guntersthal 4  
91235 Hartenstein  
Telephone : +499152770  
Telefax : +499152777008  
E-mail address : msds.eckart@altana.com  
Responsible/issuing person

#### 1.4 Emergency telephone number

**NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

### SECTION 2: Hazards identification

#### GHS Classification

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

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

## ROTOVARIO FPG 550 113 Silver

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

Central nervous system, H336

### GHS-Labeling

Symbol(s)



Signal word

: Danger

Hazard statements

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

Precautionary statements

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

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

## ROTOVARIO FPG 550 113 Silver

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

tightly closed.

P405 Store locked up.

**Disposal:**

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

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

Identification	CAS-No.
propan-2-ol	67-63-0

## SECTION 3: Composition/information on ingredients

Substance No. :


### Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	25 - 50
propan-2-ol	67-63-0 200-661-7	Flam. Liq.;2;H225 Acute Tox.;5;H303 Acute Tox.;5;H313 ;2A;H319 STOT SE;3;H336	25 - 50

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

Page 3 / 19	102000036197	A member of 
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**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

General advice	: Move the victim to fresh air.  Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Remove to fresh air. 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 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**

This information is not available.

**4.3 Indication of any immediate medical attention and special treatment needed**

This information is not available.

**SECTION 5: Firefighting measures**
**5.1 Extinguishing media**

Page 4 / 19	102000036197	A member of 
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## ROTOVARIO FPG 550 113 Silver

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

Suitable extinguishing media : Dry sand, Special powder against metal fire

Unsuitable extinguishing media : Water, Foam, Carbon dioxide (CO<sub>2</sub>), ABC powder

High volume water jet

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

Specific hazards during firefighting : Contact with water liberates extremely flammable gas (hydrogen).

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if necessary.

Further information : For safety reasons in case of fire, cans should be stored separately in closed containments. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

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

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

### 6.2 Environmental precautions

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

## ROTOVARIO FPG 550 113 Silver

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

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

Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Keep away from heat and sources of ignition. Avoid dust formation. Ensure adequate ventilation.

Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

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

## ROTOVARIO FPG 550 113 Silver

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

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. Provide appropriate exhaust ventilation at places where dust is formed. 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.

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

### 7.3 Specific end use(s)

This information is not available.

**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Germany:**

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

**8.2 Exposure controls**
**Personal protective equipment**





**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

- : In the case of dust or aerosol formation use respirator with an approved filter.

**Environmental exposure controls**

- General advice
- : The product should not be allowed to enter drains, water courses or the soil.
  - : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

- Appearance : Pasty solid
- Colour : silver
- Odour : characteristic
- pH : substance/mixture is non-soluble (in water)
- Freezing point : No data available
- Boiling point/boiling range : 82 °C
- Flash point : 12 °C
- Bulk density : No data available
- Flammability (solid, gas) : The substance or mixture is a flammable solid with the category 1.

**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

Auto-flammability	: not auto-flammable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: 425 °C
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Explosive properties	: Not explosive Vapours may form explosive mixture with air.

**9.2 Other information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

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**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.

No decomposition if stored and applied as directed.

**10.4 Conditions to avoid**

Conditions to avoid : Do not allow to dry.

Heat, flames and sparks.

**10.5 Incompatible materials**

Materials to avoid : Acids  
Bases  
Oxidizing agents  
Highly halogenated compounds

**10.6 Hazardous decomposition products**

Other information : No data available

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Components:****propan-2-ol :**

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

**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

Acute dermal toxicity : LD50 Rabbit: &gt; 2 000 mg/kg

**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**

No data available

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

**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

---

**Aspiration toxicity**

No data available

**Further information****Product**

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

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**SECTION 12: Ecological information****12.1 Toxicity**

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**

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

## ROTOVARIO FPG 550 113 Silver

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

---

No data available

### 12.6 Other adverse effects

**Product:**

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Send to a licensed waste management company.

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.

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## SECTION 14: Transport information

### 14.1 UN number

ADR : 1325

TDG : 1325

CFR : 1325

IMDG : 1325

**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

**IATA** : 1325

**14.2 Proper shipping name**

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

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

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

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

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

**14.3 Transport hazard class**

**ADR** : 4.1

**TDG** : 4.1

**CFR** : 4.1

**IMDG** : 4.1

**IATA** : 4.1

**14.4 Packing group**
**ADR**

Packaging group : II

Classification Code : F1

Hazard Identification Number : 40

Labels : 4.1

Tunnel restriction code : (E)

**TDG**

Packaging group : II



**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

Labels : 4.1

**CFR**

Packaging group : II

Labels : 4.1

**IMDG**

Packaging group : II

Labels : 4.1

EmS Number : F-G, S-G

**IATA**Packing instruction (cargo  
aircraft) : 448Packing instruction  
(passenger aircraft) : 445

Packing instruction (LQ) : Y441

Packaging group : II

Labels : 4.1

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

: IMDG Code segregation group 15 - Powdered metals

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

No data available

**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

**SECTION 15: Regulatory information**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (aluminium powder (stabilised)) (propan-2-ol)

**15.2 Chemical safety assessment**

No data available

**SECTION 16: Other information**
**Full text of H-Statements**

H225	: Highly flammable liquid and vapour.
H228	: Flammable solid.
H303	: May be harmful if swallowed.
H313	: May be harmful in contact with skin.
H319	: Causes serious eye irritation.
H336	: May cause drowsiness or dizziness.

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

**ROTOVARIO FPG 550 113 Silver**

Version 1.0

Revision Date 27.01.2023

Print Date 28.01.2023

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