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
	Guentersthal 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,

Page 1 / 19	102000036197	A member of C ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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ROTOVARIO FPG 550 113 Silver

Version 1.0	Revision Date 27.01.2023	Print Date 28.01.2023
	Central nervous system, H33	6
GHS-Labelling		
Symbol(s)		
Signal word	: Danger	
Hazard statements	: H228: Flammable solid. H319: Causes serious eye irri H336: May cause drowsiness	
Precautionary statements	flames and other ignition sour P240 Ground and bond cor P241 Use explosion-proof e equipment. P261 Avoid breathing dust. P264 Wash skin thoroughly P271 Use only outdoors or P280 Wear protective glove protection/ face protection/ he Response: P304 + P340 + P319 IF IN air and keep comfortable for the feel unwell. P305 + P351 + P338 IF IN water for several minutes. Re and easy to do. Continue rins P337 + P317 If eye irritation P370 + P378 In case of fire powder for metal fires. P370 + P378 In case of fire Storage: P403 + P233 Store in a we	Attainer and receiving equipment. electrical/ ventilating/ lighting y after handling. in a well-ventilated area. es/ protective clothing/ eye earing protection. HALED: Remove person to fresh preathing. Get medical help if you EYES: Rinse cautiously with emove contact lenses, if present
Page 2 / 19	102000036197	A member of C ALTANA



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

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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

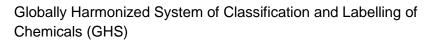
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Page 3 / 19	102000036197	A member of C ALTANA
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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 Do not leave the victim unatt	to the doctor in attendance.
If inhaled	: Remove to fresh air. Consult a physician after sign If unconscious, place in reco advice.	nificant exposure. overy position and seek medical
In case of skin contact	: Wash off immediately with so	cap and plenty of water.
	If on clothes, remove clothes	».
In case of eye contact	: Immediately flush eye(s) with	n plenty of water.
	Immediately flush eye(s) with Remove contact lenses. Keep eye wide open while rin If eye irritation persists, cons	nsing.
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic Never give anything by mout If symptoms persist, call a ph	th to an unconscious person.

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 C ALTANA

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 (CO2), ABC powder	
	High volume water jet	
5.2 Special hazards arising from	substance or mixture	
Specific hazards during firefighting	Contact with water liberates extremely flammable (hydrogen).	gas
5.3 Advice for firefighters		
Special protective equipment for firefighters	Use personal protective equipment.	
	Wear self-contained breathing apparatus for firefig necessary.	hting if
Further information	For safety reasons in case of fire, cans should be s separately in closed containments. Use extinguish measures that are appropriate to local circumstance surrounding environment. Use a water spray to con- closed containers.	ing ces and the

SECTION 6: Accidental release measures

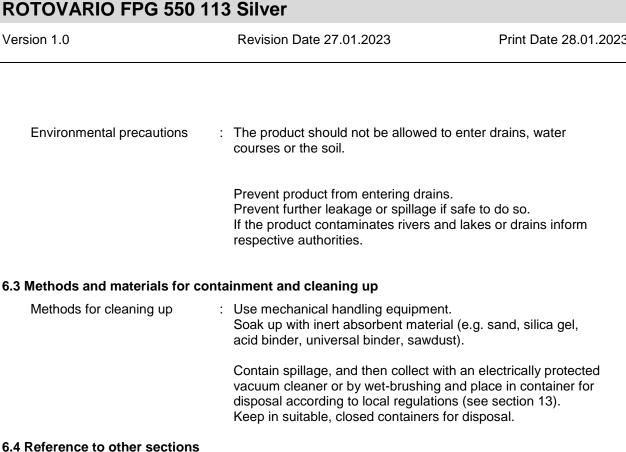
6.1 Personal precautions, protective equipment and emergency procedures

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

Page 5 / 19	102000036197	A member of C ALTANA

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



For personal protection see section 8.

SECTION 7: Handling and storage

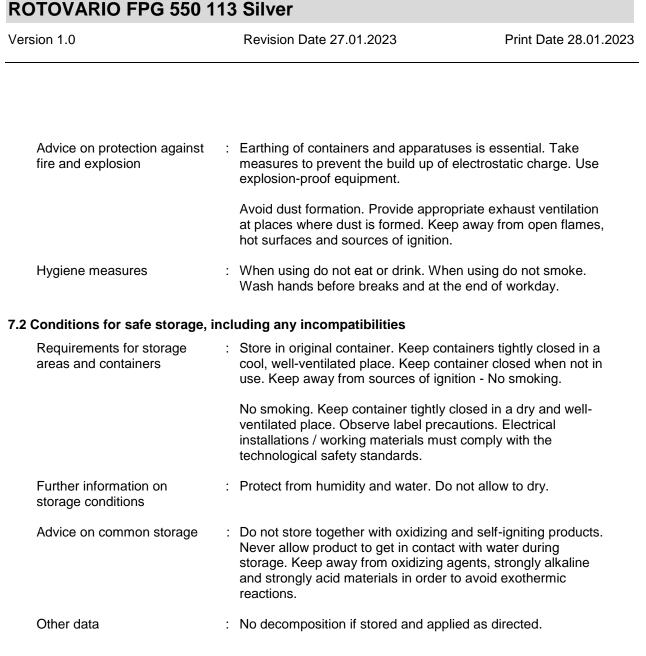
7.1 Precautions for safe handling

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 shoul be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Open drum careful as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.				
Page 6 / 19	102000036197	A member of 🜔 ALTANA			



Print Date 28.01.2023

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



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7.3 Specific end use(s)

This information is not available.

A member of C ALTANA

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 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)	AGW (Inhalable 10 mg/m3 2		DE TRGS 900		
Peak-limit: exc factor (categor		2;(II)					
Further informa	ation	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/m3	2021-07-02	DE TRGS 900		
Peak-limit: exc factor (categor		2;(II)					
Further informa	ation	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/m3		2006-01-01	DE TRGS 900		
Peak-limit: exc factor (categor		2;(II)					
Further informa	ation	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

Page 8 / 19	102000036197	A member of C ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

ersion 1.0		Revision Date 27.01.2023	Print Date 28.01.202		
Eye protection	:	Tightly fitting safety goggles Wear face-shield and protective problems.	suit for abnormal processing		
Hand protection					
Material	:	Solvent-resistant gloves (butyl-re	ubber)		
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.			
	:	The suitability for a specific work with the producers of the protect	•		
Skin and body protection	:	: Long sleeved clothing Safety shoes			
	:	Choose body protection accordin concentration of the dangerous			
Respiratory protection	:	Use suitable breathing protection requires.	n if workplace concentration		
age 9 / 19		102000036197			

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
	: In the case of dust or aerosol formati approved filter.	on use respirator with an
Environmental exposure co	ntrols	
General advice	: The product should not be allowed to courses or the soil.	enter drains, water
	: Prevent product from entering drains Prevent further leakage or spillage if If the product contaminates rivers and respective authorities.	safe to do so.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Pasty solid	
Colour	: silver	
Odour	: characteristic	
рН	: 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.	

Page 10 / 19	102000036197	A member of C ALTANA
--------------	--------------	-----------------------------



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

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.

Page 11 / 19	102000036197	A member of C ALTANA

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



Version 1.0	Revision Date 27.01.2023	Print Date 28.01.2023

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 pro	ducts

Other information : No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

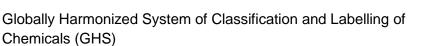
Components:

propan-2-ol : Acute oral toxicity

: LD50 Rat: > 2 000 mg/kg

A member of C ALTANA	Page 12 / 19	102000036197	A member of C ALTANA
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ROTOVARIO FPG 550 113 Silver

Version 1.0	Revision Date 27.01.2023	Print Date 28.01.2023

Acute dermal toxicity : LD50 Rabbit: > 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

Page 13 / 19	102000036197	A member of C ALTANA
--------------	--------------	-----------------------------

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.

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

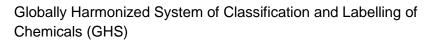
12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Page 14 / 19	102000036197	A member of C ALTANA
--------------	--------------	-----------------------------





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 : No data available information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

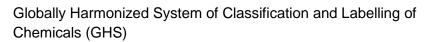
Product	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number		
ADR	:	1325
TDG	:	1325
CFR	:	1325
IMDG	:	1325

Page 15 / 19	102000036197	A member of C ALTANA
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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)
ΙΑΤΑ	: 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
ΙΑΤΑ	: 4.1
14.4 Packing group	
ADR	
Packaging group	: 11
Classification Code	: F1
Hazard Identification Number	: 40
Labels	: 4.1
Tunnel restriction code	: (E)
TDG	
Packaging group	: 11
Page 16 / 19	A member of C ALTANA



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
Labels	: 4.1	
CFR		
Packaging group	: 11	
Labels	: 4.1	
IMDG		
Packaging group	: 11	
Labels	: 4.1	
EmS Number	: F-G, S-G	
ΙΑΤΑ		
Packing instruction (cargo aircraft)	: 448	
Packing instruction (passenger aircraft)	: 445	
Packing instruction (LQ)	: Y441	
Packaging group	: 11	
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

Page 17 / 19	102000036197	A member of C ALTANA
--------------	--------------	-----------------------------

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 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	
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H313 H319 H336 Page 18 / 19	: Causes serious eye irritation	 May be harmful in contact with skin. Causes serious eye irritation. May cause drowsiness or dizziness. 		
H225 H228 H303 H313	 Highly flammable liquid and Flammable solid. May be harmful if swallowed May be harmful in contact w 	L		





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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Page 19 / 19	102000036197	A member of C ALTANA