according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

Version Revision Date: SDS Number: Print Date: 04.02.2019

1.1 30.01.2019 102000000386 Date of first issue: 13.04.2015

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

1.1 Product identifier

Trade name : ROTOVARIO Aqua 622 042 Silver

Product code : 071870KA0

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)

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Danger

Hazard statements : H315 Causes skin irritation.

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

 Version
 Revision Date:
 SDS Number:
 Print Date:
 04.02.2019

 1.1
 30.01.2019
 102000000386
 Date of first issue: 13.04.2015

H318 Causes serious eye damage.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

Hazardous components which must be listed on the label:

Phosphoric acid, mono- and bis(C16-20-branched and linear alkyl) esters

### **Additional Labelling**

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-

500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May

produce an allergic reaction.

### 2.3 Other hazards

Combustible Solids

None known.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

### **Hazardous components**

Chemical name	CAS-No. EC-No. Index-No.	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
aluminium powder (stabilised)	Registration number 7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228	>= 50 - <= 100
Phosphoric acid, mono- and bis(C16-20-branched and linear alkyl) esters	97468-33-2 946-101-1 01-2120740189-51	Skin Sens. 1B; H317 Aquatic Chronic 4; H413	>= 1 - < 5
ethanol	64-17-5 200-578-6 603-002-00-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 3 - < 10

For explanation of abbreviations see section 16.

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

Version Revision Date: SDS Number: Print Date: 04.02.2019 102000000386 1.1 30.01.2019 Date of first issue: 13.04.2015

#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

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.

In case of eye contact Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear.

Do NOT induce vomiting.

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

None known.

#### 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

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

Specific hazards during

Do not allow run-off from fire fighting to enter drains or water courses.

firefighting

### 5.3 Advice for firefighters

for firefighters

Special 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.

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

 Version
 Revision Date:
 SDS Number:
 Print Date:
 04.02.2019

 1.1
 30.01.2019
 102000000386
 Date of first issue: 13.04.2015

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 : Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

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.

6.4 Reference to other sections

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of respirable particles.

Do not breathe vapours/dust. 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

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.

Storage class (TRGS 510) : 11, Combustible Solids

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

 Version
 Revision Date:
 SDS Number:
 Print Date:
 04.02.2019

 1.1
 30.01.2019
 102000000386
 Date of first issue: 13.04.2015

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**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
aluminium powder	7429-90-5	AGW (Inhalable	10 mg/m3	DE TRGS		
(stabilised)		fraction)		900		
Peak-limit: excursion	2;(II)					
factor (category)						
Further information	Commission for dangerous substances, Senate commission for the review					
	of compounds at the work place dangerous for the health (MAK-					
	commission).					
		AGW (Alveolate	1,25 mg/m3	DE TRGS		
		fraction)	_	900		
Peak-limit: excursion	2;(II)					
factor (category)						
Further information	Commission for dangerous substances, Senate commission for the review					
	of compounds at the work place dangerous for the health (MAK-					
	commission).					
ethanol	64-17-5	AGW	500 ppm	DE TRGS		
			960 mg/m3	900		
Peak-limit: excursion	2;(II)					
factor (category)						
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

Eye protection : Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Dust impervious protective suit

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

Version Revision Date: SDS Number: Print Date: 04.02.2019

1.1 30.01.2019 102000000386 Date of first issue: 13.04.2015

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance : solid

Colour : No data available

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Freezing point : No data available

Boiling point/boiling range : 100 °C

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

Self-ignition : No data available

Auto-ignition temperature : No data available

Smoldering temperature : No data available

Decomposition temperature : No data available

Explosive properties : No data available

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 : 2,18 g/cm3

Bulk density : No data available

Water solubility : No data available

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

Version Revision Date: SDS Number: Print Date: 04.02.2019

1.1 30.01.2019 102000000386 Date of first issue: 13.04.2015

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 : Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

# 10.6 Hazardous decomposition products

Contact with water or humid

: This information is not available.

air

Thermal decomposition : This information is not available.

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

Version Revision Date: SDS Number: Print Date: 04.02.2019

1.1 30.01.2019 102000000386 Date of first issue: 13.04.2015

# **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

ethanol:

Acute oral toxicity : LD50 (Mouse): 3.450 mg/kg

LD50 (Rat): 7.060 mg/kg

LD50 (Rabbit): 6.300 mg/kg

Acute inhalation toxicity : LC50 (Rat): 20.000 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

#### Skin corrosion/irritation

### **Product:**

Remarks: Extremely corrosive and destructive to tissue.

### **Components:**

### Phosphoric acid, mono- and bis(C16-20-branched and linear alkyl) esters:

Result: No skin irritation

#### ethanol:

Result: No skin irritation

Remarks: Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

### **Product:**

Remarks: May cause irreversible eye damage.

# **Components:**

### ethanol:

Result: Eye irritation

Remarks: Based on available data, the classification criteria are not met.

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

Version Revision Date: SDS Number: Print Date: 04.02.2019

1.1 30.01.2019 102000000386 Date of first issue: 13.04.2015

#### **Further information**

**Product:** 

Remarks: No data available

# **SECTION 12: Ecological information**

### 12.1 Toxicity

### **Components:**

Phosphoric acid, mono- and bis(C16-20-branched and linear alkyl) esters:

### **Ecotoxicology Assessment**

Long-term (chronic) aquatic

hazard

May cause long lasting harmful effects to aquatic life.

# 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.

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

 Version
 Revision Date:
 SDS Number:
 Print Date:
 04.02.2019

 1.1
 30.01.2019
 102000000386
 Date of first issue: 13.04.2015

Do not re-use empty containers.

In accordance with local and national regulations.

# **SECTION 14: Transport information**

14.1 UN number

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not permitted for transport

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not permitted for transport

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not permitted for transport

14.4 Packing group

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not permitted for transport

IATA (Passenger) : Not permitted for transport

14.5 Environmental hazards

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Due to the risk of hydrogen development we recommend to

refrain from airfreighting this/these product(s).

# 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

 Version
 Revision Date:
 SDS Number:
 Print Date:
 04.02.2019

 1.1
 30.01.2019
 102000000386
 Date of first issue: 13.04.2015

# **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).

Water contaminating class

(Germany)

: WGK 1 slightly hazardous to water

# 15.2 Chemical safety assessment

### **SECTION 16: Other information**

#### **Full text of H-Statements**

H225 : Highly flammable liquid and vapour.

H228 : Flammable solid.

H317 : May cause an allergic skin reaction.

H319 : Causes serious eye irritation.

H413 : May cause long lasting harmful effects to aquatic life.

#### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Flam. Sol. : Flammable solids
Skin Sens. : Skin sensitisation

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

DE TRGS 900 / AGW : Time Weighted Average

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

according to Regulation (EC) No. 1907/2006



# **ROTOVARIO Aqua 622 042 Silver**

 Version
 Revision Date:
 SDS Number:
 Print Date:
 04.02.2019

 1.1
 30.01.2019
 102000000386
 Date of first issue: 13.04.2015

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.

DE / EN