according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

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

1.1 Product identifier

Trade name : ROTOVARIO Aqua 622 022 Silver

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

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.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements : **Prevention:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

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.

P310 Immediately call a POISON CENTER or

doctor/ physician.

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

attention.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

Hazardous components which must be listed on the label:

97468-33-2 Phosphoric acid, mono- and bis(C16-20-branched and linear

alkyl) esters

Additional Labelling:

EUH208 Contains: mixture 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), 5-Chloro-2-methyl-3(2H)isothiazole mixt. with 2-Methyl-3(2H)isothiazolone; May produce an allergic reaction.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
aluminium	7429-90-5	F; R11	Flam. Sol. 1; H228	>= 50 - <= 100

according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

	231-072-3 01-2119529243-45			
Phosphoric acid, mono- and bis(C16- 20-branched and linear alkyl) esters	97468-33-2 306-986-1	C; C; R34	Skin Corr. 1B; H314	>= 1 - < 5
ethanol	64-17-5 200-578-6 01-2119457610-43	F; R11	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 3 - < 10

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.

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

according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Revision Date 20.02.2014 Version 1.0 Print Date 20.11.2018

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

This information is not available.

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

for firefighters

Special protective equipment : Wear self contained breathing apparatus for fire fighting 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 : 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 materials for containment and cleaning up

Methods for cleaning up : Do not flush with water.

Keep in suitable, closed containers for disposal.

102000000389 / 071860KA0

A member of ALTANA

according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

6.4 Reference to other sections

This information is not available.

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.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	TWA (Inhalable)	10 mg/m3	2011-12-01	GB EH40
Further information		The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust			



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

		or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
aluminium	7429-90-5	TWA (Respirable)	4 mg/m3	2011-12-01	GB EH40
Further information		The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
aluminium	7429-90-5	TWA (Inhalable)	10 mg/m3	2005-04-06	GB EH40
Further information		For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dustThe COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit.Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'.Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3.Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with.Where no specific short-term exposure limit is listed, a figure			
aluminium	7429-90-5	TWA (Respirable)	4 mg/m3	2005-04-06	GB EH40

according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

Further inform	ation	dust are those fr when sampling i described in MD gravimetric analy definition of a su kind when prese than 10 mg.m-3 TWA of respirab to COSHH if pec have been assig comply with the particles of a wice fate of any particles system and the land size of the p limit-setting purp dust approximate the nose and modeposition in the to the fraction the lung. Fuller defind MDHS14/3.Whe assigned WEL, a with.Where no se three times the lease	s of these limits, restactions of airborne is undertaken in accidental substance hazardous in at a concentration is a concentration in a concentration in a concentration is a concentration in a concentra	dust which will be cordance with the cordance with the cordance with the cordance with the cordance with an in air equal to alable dust or 4 rest that any dust we cove these levels and exposure to cost industrial dust he behaviour, do not y into the hunit elicits, depending and is therefore spirable dust a cory material are mponents that he should be com xposure limit is I	pe collected e methods ling and tThe COSHH es dust of any or greater mg.m-3 8-hour vill be subject s. Some dusts of these must ets contain eposition and nan respiratory d on the nature fractions for able'.Inhalable all that enters re available for pproximates region of the given in ave their own uplied
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	2005-04-06	GB EH40
Further information		Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

DNEL:

ethanol (64-17-5) End Use: Workers

Exposure routes: Inhalation

Potential health effects: short term – local effects

Value: 1900 mg/m3

DNEL:

ethanol (64-17-5) End Use: Workers

Exposure routes: Skin contact

Potential health effects: long term – systemic effects

Value: 343 mg/kg



according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

DNEL:

ethanol (64-17-5) End Use: Workers

Exposure routes: Inhalation

Potential health effects: long term - systemic effects

Value: 950 mg/m3

DNEL:

ethanol (64-17-5) End Use: Consumers

Exposure routes: Inhalation

Potential health effects: short term - local effects

Value: 950 mg/m3

DNEL:

ethanol (64-17-5) End Use: Consumers

Exposure routes: Ingestion

Potential health effects: long term – systemic effects

Value: 87 mg/kg

DNEL:

ethanol (64-17-5) End Use: Consumers

Exposure routes: Skin contact

Potential health effects: long term - systemic effects

Value: 206 mg/kg

DNEL:

ethanol (64-17-5) End Use: Consumers

Exposure routes: Inhalation

Potential health effects: long term – systemic effects

Value: 114 mg/m3

PNEC:

ethanol (64-17-5) Soil

Value: 0.63 mg/kg

PNEC:

ethanol (64-17-5) Fresh water

Value: 0.96 mg/l

PNEC: :

ethanol (64-17-5) Fresh water sediment

Value: 3.6 mg/kg

PNEC:

ethanol (64-17-5) Marine water

Value: 0.79 mg/l

PNEC: :

Page 8 / 15 102000000389 / 071860KA0

A member of ALTANA

according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

ethanol (64-17-5) Marine sediment

Value: 2.9 mg/kg

PNEC:

ethanol (64-17-5) STP

Value: 580 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

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.

Environmental exposure controls

General advice : 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 : solid

Colour : silver

Odour : characteristic
pH : no data available
Freezing point : no data available

Boiling point/boiling range : 100 °C

according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

Flash point : no data available
Bulk density : no data available

Flammability (solid, gas) : The product is not flammable.

Auto-flammability : no data available
Upper explosion limit : no data available
Lower explosion limit : no data available
Vapour pressure : no data available

Density : 2.18 g/cm3

Water solubility : no data available Solubility in other solvents : no data available Partition coefficient: n-octanol/water : no data available Auto-ignition temperature : no data available Thermal decomposition : 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



according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

Materials to avoid : no data available

10.6 Hazardous decomposition products

Other information : no data 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

Skin corrosion/irritation

Product

Extremely corrosive and destructive to tissue.

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

according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

Reprod.Tox./Development/Teratogenicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

Further information

Product

no data available

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

according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

no data available

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

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.

SECTION 14: Transport information

14.1 UN number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

IATA : Not permitted for transport

14.2 Proper shipping name

ADR

Not dangerous goods

IMDG

according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

Not dangerous goods

IATA

Not permitted for transport

14.3 Transport hazard class

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA : Not permitted for transport

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

(Cargo) : Not permitted for transport(Passenger) : Not permitted for transport

14.5 Environmental hazards

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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 73/78 and the IBC Code

no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water contaminating class

: WGK 1 slightly water endangering

(Germany)



according to Regulation (EC) No. 1907/2006



ROTOVARIO Aqua 622 022 Silver

Version 1.0 Revision Date 20.02.2014 Print Date 20.11.2018

15.2 Chemical Safety Assessment

no data available

SECTION 16: Other information

Full text of R-Phrases

R11 Highly flammable. R34 Causes burns.

Full text of H-Statements

H225 Highly flammable liquid and vapour.

H228 Flammable solid.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

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.

