

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

# **ROTOVARIO 501 042 Silver IF**

Version 2.0 Revision Date 09.12.2019 Print Date 16.04.2024

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

#### 1.1 Product identifier

Trade name : ROTOVARIO 501 042 Silver IF

Material number : 024123G60

# 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 Suisse SA

Route de la Brasserie 2

1963 Vétroz

Telephone : +410273454800 Telefax : +410273454859

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,

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Central nervous system, H336

**GHS-Labelling** 

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection/ hearing protection.

Response:

air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

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.

## Hazardous components which must be listed on the label

Identification CAS-No. ethyl acetate 141-78-6

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

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Substance No. :

#### **Hazardous components**

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium powder (stabilised)	7429-90-5 231-072-3	Flam. Sol.;1;H228	50 - 100
ethyl acetate	141-78-6 205-500-4	Flam. Liq.;2;H225 Eye Irrit.;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

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.

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> 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

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

Unsuitable extinguishing

media

: Water, Foam, Carbon dioxide (CO2), ABC powder

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

This information is not available.

#### 5.3 Advice for firefighters

for firefighters

Special protective equipment : 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

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Personal precautions : Evacuate personnel to safe areas.

Use personal protective equipment. 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 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).

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.

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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. 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.



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# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

## Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium powder (stabilised)	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further inform	ation		dangerous substan ounds at the work pl on).		
aluminium powder (stabilised)	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further inform	ation	Commission for dangerous substances Senate commission fo review of compounds at the work place dangerous for the heal (MAK-commission).			
ethyl acetate	141-78-6	AGW	200 ppm 730 mg/m3	2017-06-08	DE TRGS 900
Peak-limit: exc factor (categor		2;(l)	J		
Further inform	ation	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible) When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		European ions in value ce with the	
ethyl acetate	141-78-6	STEL	400 ppm 1 468 mg/m3	2017-02-01	2017/164/EU



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Further inform	ation	Indicative			
ethyl acetate	141-78-6	TWA	200 ppm 734 mg/m3	2017-02-01	2017/164/EU
Further inform	ation	Indicative			

#### 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.

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 work place.

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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** 

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.

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

pH : No data available
Freezing point : No data available
Boiling point/boiling range : No data available

Flash point : No data available
Bulk density : No data available

Flammability (solid, gas) : The substance or mixture is a flammable solid

with the category 1.

Auto-flammability : not auto-flammable

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Upper explosion limit : No data available Lower explosion limit No data available Vapour pressure No data available No data available Density Water solubility : No data available Miscibility with water No data available Solubility in other solvents No data available Partition coefficient: n-octanol/water : No data available Ignition temperature : No data available : No data available Thermal decomposition Viscosity, dynamic No data available No data available Viscosity, kinematic Flow time : No data available

Explosive properties : Not explosive Vapours may form explosive

mixture with air.

Not explosive Vapours may form explosive

mixture with air.

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

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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

Hazardous decomposition

products

: No data available

Other information : No data available

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

**Acute toxicity** 

**Components:** 

ethyl acetate:

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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**

May cause skin irritation in susceptible persons.

# Serious eye damage/eye irritation

## **Product**

Eye irritation

# Respiratory or skin sensitisation

No data available

## Carcinogenicity

No data available

# Toxicity to reproduction/fertility

No data available

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## 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**

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:**

ethyl acetate (141-78-6) :

aquatic invertebrates

Toxicity to daphnia and other : (Daphnia (water flea)): 717 mg/l

#### 12.2 Persistence and degradability

No data available

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#### 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

## **Product:**

Additional ecological

information

: No data available

## **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. 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.

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In accordance with local and national regulations.

## **SECTION 14: Transport information**

#### 14.1 UN number

ADR : 1325 TDG : 1325 CFR : 1325 IMDG : 1325 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

## 14.4 Packing group

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#### **ADR**

Packaging group : II
Classification Code : F1
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : (E)

**TDG** 

Packaging group : II Labels : 4.1

**CFR** 

Packaging group : II Labels : 4.1

**IMDG** 

Packaging group : II Labels : 4.1

EmS Number : F-G, S-G

: 448

**IATA** 

Packing instruction (cargo

aircraft)

Packing instruction : 445

(passenger aircraft)

Packing instruction (LQ) : Y441
Packaging group : II
Labels : 4.1

14.5 Environmental hazards

IMDG :

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## 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

# **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High : Not applicable Concern for Authorisation (Article 59).

#### 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.

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

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