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



ROTOVARIO 530 080 Silver

Version 2.1

Revision Date 08.02.2024

Print Date 02.03.2024

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

1.1 Product identifier

Trade name	: ROTOVARIO 530 080 Silver
Material number	: 072318G60

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,

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



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/ersion 2.1	Revision Date 08.02.2024	Print Date 02.03.2024
	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 di	
Precautionary statements	air and keep comfortable for breath feel unwell. P305 + P351 + P338 IF IN EYES water for several minutes. Remove and easy to do. Continue rinsing. P337 + P317 If eye irritation pers P370 + P378 In case of fire: Use powder for metal fires. P370 + P378 In case of fire: Use Storage:	No smoking. er and receiving equipment. ical/ventilating/lighting handling. vell-ventilated area. rotective clothing/eye protection. D: Remove person to fresh hing. Get medical help if you S: Rinse cautiously with
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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.
ethyl acetate	141-78-6

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	50 - 100
ethyl acetate	141-78-6 205-500-4	Flam. Liq.;2;H225 ;2A;H319 STOT SE;3;H336	25 - 50
Fatty acids, C14-18 and C16-18- unsatd.	67701-06-8 266-930-6	Acute Tox.;5;H313	1 - 10

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

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Move the victim to fresh air. Move out of dangerous area.
If inhaled	 Show this safety data sheet to the doctor in attendance. 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.
In case of eye contact	 If on clothes, remove clothes. Immediately flush eye(s) with plenty of water. Remove contact lenses.
If swallowed	Keep eye wide open while rinsing.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

Suitable extinguishing media	: Dry sand, Special powder against metal fire
Unsuitable extinguishing media	: Carbon dioxide (CO2), ABC powder, Water, Foam

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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	:	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

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

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.

This information is not available.

6.3 Methods and materials for containment and cleaning up

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Methods for cleaning up	: Use mechanical handling equipment. Soak up with inert absorbent material acid binder, universal binder, sawdust Do not flush with water. Keep in suitable, closed containers for).	
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. Advice on protection against : Earthing of containers and apparatuses is essential. Take fire and explosion 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. When using do not eat or drink. When using do not smoke. Hygiene measures Wash hands before breaks and at the end of workday. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage : Store in original container. Keep containers tightly closed in a areas and containers cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking.

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	No smoking. Keep container tightly overtilated place. Observe label precinstallations / working materials mustechnological safety standards.	autions. Electrical		
Further information on	: Protect from humidity and water. Do	o not allow to dry.		

storage conditions	
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.

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/m3	2021-07-02	DE TRGS 900
	Peak-limit: exc	ursion	2;(II)			
	factor (category)					
	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/m3	2021-07-02	DE TRGS 900
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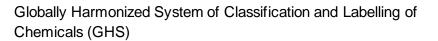
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Peak-limit: exc factor (categor		2;(II)				
Further inform	ation		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
ethyl acetate	141-78-6	AGW	200 ppm 730 mg/m3	2017-06-08	DE TRGS 900	
Peak-limit: exc factor (categor		2;(l)				
Further inform	F L a		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			
ethyl acetate	141-78-6	STEL	400 ppm 1 468 mg/m3	2017-02-01	2017/164/EU	
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				
maleic anhydride	108-31-6	AGW (Vapour and aerosols)	0,02 ppm 0,081 mg/m3	2018-06-07	DE TRGS 900	
	Peak-limit: excursion factor (category)		1; =2.5=(l)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).Sum of vapor and aerosols.When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn childSubstance sensitizing through the skin and respiratory system				

United States of America (USA):

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	aluminium	7429-90-5	TWA (total dust)	parameters 50 Million particles per cubic foot	2012-07-01		
	Components	CAS-No.	Value type (Form of	Control	Update	Basis	



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aluminium	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01
aluminium	7429-90-5	TWA (total)	10 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2012-07-01
aluminium	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01
aluminium	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26
aluminium	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2008-01-01
aluminium	7429-90-5	TWA	5 mg/m3	2005-09-01
aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01
aluminium	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19
aluminium	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2013-03-01
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19
aluminium	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02
aluminium	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02
aluminium	7429-90-5	TWA (powder)	5 mg/m3	1989-01-19
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ethyl acetate	141-78-6	TWA	400 ppm	2013-03-01
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m3	2013-10-08
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m3	1997-08-04
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m3	1989-01-19
ethyl acetate	141-78-6	PEL	400 ppm 1 400 mg/m3	2014-11-26

8.2 Exposure controls

Personal protective equipm	ent		
Eye protection	: Wear face-shield and protecti problems.	ve suit for abnormal processing	
Hand protection			
Material	: Solvent-resistant gloves (buty	I-rubber)	
Remarks	permeability and break throug workplace conditions (mechar The exact break through time protective glove producer and Please observe the instructior	nical strain, duration of contact). can be obtained from the this has to be observed. ns regarding permeability and provided by the supplier of the eration the specific local oduct is used, such as the	
	Recommended preventive ski	Recommended preventive skin protection	
	Skin should be washed after o	contact.	
		The suitability for a specific workplace should be discussed with the producers of the protective gloves.	
	: The suitability for a specific w with the producers of the prot	•	
Skin and body protection	: Long sleeved clothing		
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 Safety shoes Choose body protection according concentration of the dangerous sub Use suitable breathing protection if requires. In the case of dust or aerosol forma approved filter. 	ostance at the work place. workplace concentration			
 The product should not be allowed courses or the soil. Prevent product from entering drain Prevent further leakage or spillage in the source of the sour	is. if safe to do so.			
	Revision Date 08.02.2024 Safety shoes Choose body protection according concentration of the dangerous sub Use suitable breathing protection if requires. In the case of dust or aerosol forma approved filter. controls The product should not be allowed courses or the soil. Prevent product from entering drain			

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	: 77 °C
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.

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Auto-flammability	:	not auto-flammable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Density	:	1,3 - 2,0 g/cm3
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	:	No data available
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.

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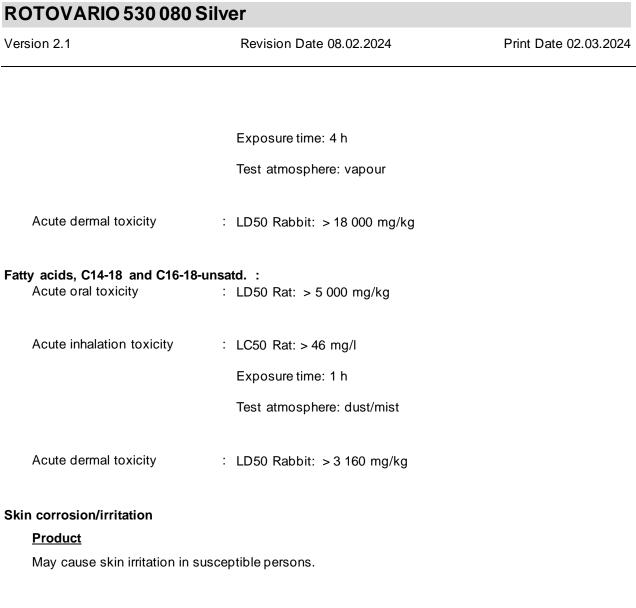
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10.3 Possibility of hazardous reactions

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.
	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
Other information	: No data available
SECTION 11: Toxicological in	nformation
11.1 Information on toxicologica	al effects
Acute toxicity	
Components:	
ethyl acetate : Acute oral toxicity	:Rat: 5 620 mg/kg
Acute inhalation toxicity	: LC50 Rat: 56 mg/l

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Serious eye damage/eye irritation

Product

Eye irritation

Respiratory or skin sensitisation

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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

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

Components:

ethyl acetate (141-78-6) :

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

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

No data available

12.6 Other adverse effects

Product:

Additional ecological : No data available information

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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	In accordance with local and national regulations. 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.
	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	S.
(Aluminum pigment paste)	
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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	:	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	

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EmS Number	:	F-G, S-G
ΙΑΤΑ		
Packing instruction (cargo aircraft)	:	448
Packing instruction	:	445
(passenger aircraft)		
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

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	: Not applicable

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deplete the ozone layer Regulation (EU) 2019/10 pollutants (recast)	21 on persistent organic	: Not applicable	
	the manufacture shall be a set	Developed and the second second	6 - 6

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)) (ethyl acetate)

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.
H313 :	May be harmful in contact with skin.
H319 :	Causes serious eye irritation.
H336 :	May cause drowsiness or dizziness.

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.

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