according to Regulation (EC) No. 1907/2006



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

agents, pigments

1.1 Product identifier			
Trade name	:	ROTOVARIO	532 504

Product code : 053392G60M1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the	:	Colouring
Substance/Mixture		

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

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable solids, Category 1 Eye irritation, Category 2 Skin sensitisation, Category 1 Specific target organ toxicity - single exposure, Category 3, Central nervous system H228: Flammable solid. H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H226: May cause drawsings or dizzings

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazar	d pictograms	•		!
Signa	l word	: Da	inger	•
Hazar	d statements	: H2 H3 H3 H3	17 19	Flammable solid. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.
Suppl Stater	emental Hazard nents	: EU	JH066	Repeated exposure may cause skin dryness or cracking.
Preca	utionary statements	: Pro P2	evention: 10	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P2 P2	•	Avoid breathing dust. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
			sponse: 04 + P340 + P3	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
		P3	70 + P378	In case of fire: Use for extinction: Special powder for metal fires.
		P3	70 + P378	In case of fire: Use for extinction: Dry sand.

Hazardous components which must be listed on the label:

propyl acetate ethyl acetate maleic anhydride

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name		ClassificationREGUL ATION (EC) No 1272/2008	Concentration (% w/w)
	Registration number		

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ersion .1	Revision Date: 08.02.2024	SDS Number: 102000000404	Print Date: 02.03.2024 Date of first issue: 02.01.2014	
alumi	nium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243		50 - <= 100
propy	/l acetate	109-60-4 203-686-1 607-024-00-6 01-2119484620	Flam. Liq. 2; H225 >= Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous	25 - < 50
ethyl	acetate	141-78-6 205-500-4 607-022-00-5	Flam. Liq. 2; H225 >= Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	= 1 - < 10
malei	c anhydride	108-31-6 203-571-6 607-096-00-9	Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Respiratory system) EUH071	0.001 - < 0.1
			limit Skin Sens. 1A; H317 >= 0.001 % Skin Sens. 1A; H317 >= 0.001 %	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measu	ires
General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Move the victim to fresh air.
If inhaled	: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.

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In cas	se of skin contact		e well with water. emove clothes.
		Wash off imme	ediately with soap and plenty of water.
In cas	se of eye contact	Remove conta Keep eye wide	ush eye(s) with plenty of water. ct lenses. open while rinsing. persists, consult a specialist.
If swallowed :		Never give any	ry tract clear. k or alcoholic beverages. thing by mouth to an unconscious person. ersist, call a physician.
4.2 Most i	important symptoms	and effects, both ac	ute and delayed
Risks :		Causes serious May cause dro	allergic skin reaction. s eye irritation. wsiness or dizziness. osure may cause skin dryness or cracking.

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
5.2 Special hazards arising from	the	e 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

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circumstances and the surrounding environment. SECTION 6: Accidental release measures Accidental release measures Personal precautions, protective equipment and emergency procedures Personal precautions Personal precautions Certain advice Prevent growth further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. The product contaminates rivers and lakes or drains inform respective authorities. Case of the soil. Case of the	Version 3.1	Revision Date: 08.02.2024	SDS Number: 102000000404	Print Date: 02.03.2024 Date of first issue: 02.01.2014
 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions Use personal protective equipment.			circumstances	and the surrounding environment.
Personal precautions : Use personal protective equipment. Avoid dust formation. Remove all sources of ignition. Evacuate personnel to safe areas. Use personal protective equipment. 6.2 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. The product should not be allowed to enter drains, water courses or the soil. 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. Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).	SECTIO	N 6: Accidental rele	ease measures	
Avoid dust formation. Remove all sources of ignition. Evacuate personnel to safe areas. Use personal protective equipment. 6.2 Environmental precautions 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. The product should not be allowed to enter drains, water courses or the soil. 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. Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).	6.1 Perso	nal precautions, pro	tective equipment ar	d emergency procedures
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. The product should not be allowed to enter drains, water courses or the soil. 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. Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).	Perso	onal precautions	Avoid dust for Remove all so Evacuate pers	mation. urces of ignition. onnel to safe areas.
Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. The product should not be allowed to enter drains, water courses or the soil. 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. Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).	6.2 Enviro	onmental precaution	S	
 Methods for cleaning up Do not flush with water. Keep in suitable, closed containers for disposal. Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 		•	: Prevent produ Prevent furthe If the product or respective auth The product sl	r leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform norities. nould not be allowed to enter drains, water
Keep in suitable, closed containers for disposal. Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).	6.3 Metho	ds and material for	containment and clea	aning up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).	Metho	ods for cleaning up		
6.4 Reference to other sections			Soak up with in	nert absorbent material (e.g. sand, silica gel,
For parsonal protection see section 8				

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. explosion-proof equipment.					
				Avoid dust format surfaces and sour	tion. Keep away from open flames, hot rces of ignition.			
Н	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 Co	onditio	ons for safe storage,	incl	uding any incom	patibilities			
Requirements for storage areas and containers		:	: No smoking. Keep container tightly closed in a dry and well ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.					
				cool, well-ventilate	ontainer. Keep containers tightly closed in a ed place. Keep container closed when not in rom sources of ignition - No smoking.			
		information on conditions	:	Protect from hum	idity and water. Do not allow to dry.			
A	Advice	on common storage	:	Never allow productors storage. Keep away from	ther with oxidizing and self-igniting products. uct to get in contact with water during oxidizing agents, strongly alkaline and erials in order to avoid exothermic reactions.			
		information on stability	:	No decomposition	n if stored and applied as directed.			
7 3 Sn	ocific	and usa(s)						

7.3 Specific end use(s)

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 (stabilised)	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40	
		TWA (Respirable fraction)	4 mg/m3	GB EH40	
		TWA (inhalable dust)	10 mg/m3	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 MDHS14/4 General methods for sampling and gravimetric analysis or				

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		substance has concentration inhalable dus any dust will b levels. Some must comply particles of a particular part response that distinguishes and 'respirabl material that e available for o to the fraction definitions an contain comp should be con	zardous to health in air equal to or t or 4 mg.m-3 8-h be subject to COS dusts have been with the appropri wide range of siz ticle after entry in t telicits, depend two size fraction e'., Inhalable dus enters the nose a deposition in the r that penetrates the d explanatory ma onents that have mplied with., Whe	ole aerosols., The COSHH de includes dust of any kind why greater than 10 mg.m-3 8-ho our TWA of respirable dust. T SHH if people are exposed to assigned specific WELs and ate limits., Most industrial dus es. The behaviour, deposition to the human respiratory syst on the nature and size of the s for limit-setting purposes ten t approximates to the fraction nd mouth during breathing an espiratory tract. Respirable d o the gas exchange region of terial are given in MDHS14/4. their own assigned WEL, all the re no specific short-term export m exposure limit should be u	en present at a ur TWA of This means that dust above these exposure to these exts contain n and fate of any em, and the body e particle. HSE rmed 'inhalable' of airborne d is therefore ust approximates f the lung. Fuller ., Where dusts the relevant limits osure limit is listed,
			dust)		
		inhalable dus when samplin MDHS14/4 G respirable, the substance has concentration inhalable dus any dust will b levels. Some must comply particles of a particular part response that distinguishes and 'respirabl material that c available for of to the fraction definitions and contain comp should be con a figure three	t are those fraction of is undertaken in eneral methods for pracic and inhalal zardous to health in air equal to or t or 4 mg.m-3 8-h be subject to COS dusts have been with the appropri- wide range of size ticle after entry in t telicits, depend two size fraction e'., Inhalable dus enters the nose and deposition in the that penetrates the d explanatory man onents that have mplied with., Whe times the long-ter	rposes of these limits, respirations of airborne dust which will in accordance with the method or sampling and gravimetric a ole aerosols., The COSHH de- includes dust of any kind whi greater than 10 mg.m-3 8-ho our TWA of respirable dust. T SHH if people are exposed to assigned specific WELs and ate limits., Most industrial dus es. The behaviour, deposition to the human respiratory syst on the nature and size of the s for limit-setting purposes ten t approximates to the fraction nd mouth during breathing an espiratory tract. Respirable d o the gas exchange region of terial are given in MDHS14/4, their own assigned WEL, all the re no specific short-term expor- term exposure limit should be u	be collected ds described in inalysis or efinition of a en present at a ur TWA of This means that dust above these exposure to these exposure to these exts contain in and fate of any em, and the body e particle. HSE rmed 'inhalable' of airborne ind is therefore ust approximates f the lung. Fuller ., Where dusts the relevant limits osure limit is listed, used.
propyla	acetate	109-60-4	TWA	200 ppm 849 mg/m3	GB EH40
			STEL	250 ppm 1,060 mg/m3	GB EH40
ethyl ac	etate	141-78-6	TWA	200 ppm 734 mg/m3	GB EH40
			STEL	400 ppm	GB EH40

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			1,468 mg/m3	
		STEL	400 ppm	2017/164/EU
			1,468 mg/m3	
	Further inform	nation: Indicative	1	1
		TWA	200 ppm	2017/164/EU
			734 mg/m3	
		nation: Indicative	1	1
maleic anhydride	108-31-6	TWA	1 mg/m3	GB EH40
maleic anhydride	Further inform known as asth specific airwa mechanism. C exposure to th respiratory sy nose to asthm hyper-respons likely to becom asthma should symptoms of but which do n not classified can be found evidence for a reasonably pr asthma should apply adequa responsive. For requires that e Activities givin particular atte surveillance is to a substance appropriate co degree of risk asthma., The those substan shown in Tabl tables may ca (www.hse.gov Further inform known as asth specific airwa mechanism. C exposure to th respiratory sy nose to asthm hyper-respons likely to becom	hation: Substances to magens and respiration of hyper-responsiven Drice the airways have the substance, some mptoms. These sym- na. Not all workers we sive and it is imposs me hyper-responsive d be distinguished fr asthma in people with not include the disea as asthmagens or re- in the HSE publication acticable, exposure d be prevented. Whe te standards of cont- or substances that co- exposure be reduced in substances that co- exposure be reduced on substances that co- exposure be reduced in the HSE publication acticable, exposure d be prevented. Whe te standards of cont- or substances that co- exposure be reduced in the hyper-responsive on sultation with an or and level of surveill 'Sen' notation in the nees which may cause of substances that a substances that is appropriate for all e- e which may cause of and level of surveill 'Sen' notation in the nees which may cause of substances to magens and respiration once the airways have the substance, somether may hyper-responsive on the substances to may hyper-responsive on the airways have the substance, somether may hyper-responsive the distinguished fr	1 mg/m3 hat can cause occupational a atory sensitisers) can induce ess via an immunological inf ve become hyper-responsive times even in tiny quantities, ptoms can range in severity tho are exposed to a sensitis ible to identify in advance the ess substances that can cause om substances which may tr th pre-existing airway hyper- ase themselves. The latter su espiratory sensitisers. Furthe on Asthmagen? Critical asse occupational asthma., Where to substances that can cause re this is not possible, the p rol to prevent workers from b an cause occupational asthma d to as low as is reasonably p peak concentrations should agement is being considered employees exposed or liable occupational health profession ance., Capable of causing of list of WELs has been assig to occupational asthma in the membered that other substan- thma. HSE's asthma web para a further information. 3 mg/m3 hat can cause occupational asthma tatory sensitisers) can induce ess via an immunological infor- te become hyper-responsive times even in tiny quantities, atory sensitisers) can induce ess via an immunological infor- te become hyper-responsive times even in tiny quantities, atory sensitisers) can induce ess via an immunological infor- te become hyper-responsive times even in tiny quantities, atory sensitisers) can induce ess via an immunological infor- te become hyper-responsive times even in tiny quantities, atory sensitisers) can induce ess via an immunological infor- te become hyper-responsive times even in tiny quantities, atory sensitisers) can induce ess via an immunological infor- te become hyper-responsive times even in tiny quantities, atory sensitisers that can cause of substances which may tr th pre-existing airway hyper-	asthma (also a state of tant or other e, further may cause from a runny er will become ose who are se occupational igger the responsiveness, ibstances are r information ssments of the ever it is e occupational rimary aim is to becoming hyper- na, COSHH oracticable. receive d. Health to be exposed re should be onal over the ccupational ned only to e categories ces not in these igges <u>GB EH40</u> asthma (also a state of tant or other e, further may cause from a runny er will become ose who are se occupational igger the

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	not cl can b evide reaso asthm apply respo requir Activ partic surve to a s appro degre asthm those show tables	lassified as asthmage be found in the HSE pro- ence for agents implica- onably practicable, exp na should be preventer or adequate standards onsive. For substances res that exposure be r ities giving rise to sho cular attention when rise is appropriate substance which may opriate consultation with the of risk and level of na., The 'Sen' notation e substances which may a substances which may on in Table 1. It should s may cause occupation	e disease themselves. The latter substances are ns or respiratory sensitisers. Further information ublication Asthmagen? Critical assessments of the ated in occupational asthma., Wherever it is posure to substances that can cause occupational ed. Where this is not possible, the primary aim is to of control to prevent workers from becoming hyper- s that can cause occupational asthma, COSHH reduced to as low as is reasonably practicable. rt-term peak concentrations should receive sk management is being considered. Health for all employees exposed or liable to be exposed cause occupational asthma and there should be th an occupational health professional over the surveillance., Capable of causing occupational n in the list of WELs has been assigned only to ay cause occupational asthma in the categories be remembered that other substances not in these onal asthma. HSE's asthma web pages provide further information.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium powder (stabilised)	Workers	Inhalation	Long-term systemic effects	3.72 mg/m3
	Workers	Inhalation	Long-term local effects	3.72 mg/m3
	Consumers	Oral	Long-term systemic effects	3.95 mg/kg
propyl acetate	Workers	Inhalation	Long-term systemic effects	420 mg/m3
	Workers	Inhalation	Long-term local effects	420 mg/m3
	Consumers	Inhalation	Long-term systemic effects	149 mg/m3
	Consumers	Inhalation	Acute systemic effects	298 mg/m3
ethyl acetate	Workers	Inhalation	Long-term systemic effects	734 mg/m3
	Workers	Inhalation	Long-term local effects	734 mg/m3
	Workers	Inhalation	Acute systemic effects	1468 mg/m3
	Workers	Dermal	Long-term systemic effects	63 mg/kg
	Workers	Inhalation	Acute local effects	1468 mg/m3
	Consumers	Inhalation	Long-term systemic effects	367 mg/m3
	Consumers	Inhalation	Long-term local effects	367 mg/m3

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		Consumer	rs	Inhalation		Acute systemic effects		734 mg/m3
		Consumer	rs	Inhalation		Acute local effects		734 mg/m3
		Consumer	rs	Dermal		Long-term systemic effects	; ;	37 mg/kg
		Workers	effects		Long-term local effects	63 mg/kg		
		Consumer				Long-term systemic effects		4.5 mg/kg
Predi	icted No Effect Co	oncentratio	n (PNE	EC) accore	ding to	Regulation (EC) No.	1907	7/2006:
Subs	tance name		Enviro	onmental C	Compartr	nent	Val	ue
alumi	nium powder (stab	oilised)	Fresh water			0.0	749 mg/l	
			clarific	cation plan	t		20	mg/l
propyl acetate			Soil			0.0215 mg/kg		
		Fresh water				0.0	6 mg/l	
			Fresh	water sed	iment		0.16	6 mg/kg
			Marine	e water			0.0	06 mg/l
			Marine	e sediment	t			16 mg/kg
			STP				1 m	

Wallie Waler	0.000 mg/i
Marine sediment	0.016 mg/kg
STP	1 mg/l
Fresh water	0.24 mg/l
Marine water	0.024 mg/l
STP	650 mg/l
Fresh water sediment	1.15 mg/kg
Marine sediment	0.115 mg/kg
Soil	0.148 mg/kg
periodical release	1.65 mg/l
	Marine sediment STP Fresh water Marine water STP Fresh water sediment Marine sediment Soil

8.2 Exposure controls

Personal protective equipme	ent	
Eye/face protection	:	Eye wash bottle with pure water Wear face-shield and protective suit for abnormal processing problems.
Hand protection		
Material	:	Solvent-resistant gloves (butyl-rubber)
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. 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

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	and body protection	washed after o should be disc gloves. : Long sleeved Safety shoes	contact. The suitability for a specific workplace cussed with the producers of the protective
Resp	piratory protection	concentration	of the dangerous substance at the work place. dust or aerosol formation use respirator with an

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	:	Pasty solid
Colour	:	silver
Odour	:	characteristic
Odour Threshold	:	No data available
Freezing point	:	No data available
Boiling point/boiling range	:	101 °C
Flammability	:	The substance or mixture is a flammable solid with the category 1.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	10 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	substance/mixture is non-soluble (in water)
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility Solubility in other solvents	:	insoluble No data available
Partition coefficient: n- octanol/water	:	No data available

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	Vapou	rpressure	:	No data available	
		Pressure for Compone yl acetate	ents: :	33 hPa (20 °C)	
	ethyl	acetate	:	98.4 hPa (20 °C)
	Relativ	e density	:	No data available	
	Density	/	:	1.3 - 2.0 g/cm3	
	Relative	e vapour density	:	No data available	
		e characteristics ticle Size Distribution	:	No data available	
9.2	Other in	nformation			
	Explos	ives	:	Not explosive Vapours may for	m explosive mixture with air.
	Self-ig	nition	:	not auto-flammat	le
	Miscibi	ility with water	:	immiscible	

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	 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	Heat, flames and sparks.
	Do not allow to dry.
10.5 Incompatible materials	
Materials to avoid	Acids Bases

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Oxidizing agents Highly halogenated compounds

10.6 Hazardous decomposition products

This information is not available.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Components:

aluminium powder (stabilise	d):			
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h		
		Test atmosphere: dust/mist		
propyl acetate:				
Acute oral toxicity	:	(Mouse): 8,300 mg/kg		
		(Rat): 9,370 mg/kg		
Acute dermal toxicity	:	(Rat): 17,760 mg/kg		
athul anatata.				
ethyl acetate:				
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		
maleic anhydride:				
Acute inhalation toxicity		Assessment: Corrosive to the respiratory tract.		
	•			
Skin corrosion/irritation				
Repeated exposure may cause	e sł	kin dryness or cracking.		
Product:				
Remarks	:	May cause skin irritation in susceptible persons.		
Serious eye damage/eye irritation				

Causes serious eye irritation.

according to Regulation (EC) No. 1907/2006

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<u>Produ</u>	<u>ct:</u>				
-					
Remai	KS	: May cause irre	versible eye damage.		
<u>Comp</u>	onents:				
propy	l acetate:				
Result		: Eye irritation			
ethyl	acetate:				
Result		: Eye irritation			
Respi	ratory or skin sensit	tisation			
	sensitisation ause an allergic skin	reaction.			
-	ratory sensitisation assified based on ava	ailable information.			
Germ cell mutagenicity Not classified based on available information.					
	ogenicity assified based on ava	ailable information.			
Reproductive toxicity Not classified based on available information.					
STOT - single exposure May cause drowsiness or dizziness.					
<u>Comp</u>	onents:				
	I acetate: sment	: May cause dro	owsiness or dizziness.		
-	acetate: sment	: May cause dro	owsiness or dizziness.		
	- repeated exposure assified based on ava				
	ation toxicity assified based on ava	ailable information.			
11.2 Inform	nation on other haza	ards			
Furthe	er information				
Produ	<u>ct:</u>				

according to Regulation (EC) No. 1907/2006



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Remarks :		tiredness, nause Concentrations narcotic effects.	substantially above the TLV value may cause	
SECTIO	N 12: Ecological info	rma	ation	
12.1 Toxi	city			
<u>Com</u>	ponents:			
Toxic	I acetate: city to daphnia and other tic invertebrates	:	(Daphnia (wate	r flea)): 717 mg/l
	sistence and degradabi	lity		
	accumulative potential ata available			
	ility in soil ata available			
12.5 Resu	ults of PBT and vPvB a	sse	ssment	
<u>Prod</u> Asse	luct: essment	:	to be either pers	mixture contains no components considered istent, bioaccumulative and toxic (PBT), or ind very bioaccumulative (vPvB) at levels of
	ocrine disrupting properate available	ertie	25	
12.7 Othe	er adverse effects			
	luct: tional ecological mation	:	No data availabl	e
SECTIO	N 13: Disposal consi	der	ations	
	pean Waste Catalogue pean Waste Catalogue	:	10 03 21 - other	errous metal dust and particles particulates and dust (including ball-mill dust)

13.1 Waste treatment methods

containing hazardous substances

according to Regulation (EC) No. 1907/2006



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Produ	uct	Do not contar chemical or u	se of waste into sewer. ninate ponds, waterways or ditches with sed container. nsed waste management company.	
Conta	aminated packaging	Dispose of as Do not re-use	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 or ID number			
ADR	:	UN 1325	
IMDG	:	UN 1325	
ΙΑΤΑ	:	UN 1325	
14.2 UN proper shipping name			
ADR	:	FLAMMABLE SOLID (Aluminium pigment p	
IMDG	:	FLAMMABLE SOLID (Aluminium pigment p	
ΙΑΤΑ	:	Flammable solid, org (Aluminium pigment p	
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADR	:	4.1	
IMDG	:	4.1	
ΙΑΤΑ	:	4.1	
14.4 Packing group			
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	-	F1	
IMDG Packing group Labels EmS Code Remarks	:	ll 4.1 F-G, S-G IMDG Code segregat	tion group 15 - Powdered metals

according to Regulation (EC) No. 1907/2006



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Packi aircra Packi	ng instruction (LQ) ng group	: 448 : Y441 : II : 4.1	
Packi (pass Packi	(Passenger) ng instruction enger aircraft) ng instruction (LQ) ng group s	: 445 : Y441 : II : 4.1	
14.5 Envir	ronmental hazards		
IMDG	onmentally hazardous i e pollutant	: no : no	
	ial precautions for us		

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: aluminium powder (stabilised) (Number on list 40) propyl acetate (Number on list 3) ethyl acetate (Number on list 3) ethanol (Number on list 3)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that	:	Not applicable

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Full text of H-Statements

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UK R (Anne	te the ozone layer EACH List of substan x XIV) nical safety assessm	ces subject to authoris ent	ation : Not applicable			
No data av	No data available					
SECTIO	SECTION 16: Other information					

H225	:	Highly flammable liquid and vapour.		
H228	:	Flammable solid.		
H302	:	Harmful if swallowed.		
H314	:	Causes severe skin burns and eye damage.		
H317	:	May cause an allergic skin reaction.		
H318	:	Causes serious eye damage.		
H319	:	Causes serious eye irritation.		
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H336	:	May cause drowsiness or dizziness.		
H372	:	Causes damage to organs through prolonged or repeated exposure if inhaled.		
EUH066	:	Repeated exposure may cause skin dryness or cracking.		
EUH071	:	Corrosive to the respiratory tract.		
Full text of other abbreviations				
Acute Tox.	:	Acute toxicity		
Eye Dam.	:	Serious eye damage		
Eye Irrit.	:	Eye irritation		
Flam. Liq.	:	Flammable liquids		
Flam. Sol.	:	Flammable solids		
Resp. Sens.	:	Respiratory sensitisation		
Skin Corr.	:	Skin corrosion		
Skin Sens.	:	Skin sensitisation		
STOT RE	:	Specific target organ toxicity - repeated exposure		
STOT SE	:	Specific target organ toxicity - single exposure		
2017/164/EU	:	Europe. Commission Directive 2017/164/EU establishing a		
		fourth list of indicative occupational exposure limit values		
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits		
2017/164/EU / STEL	:	Short term exposure limit		
2017/164/EU / TWA	:	Limit Value - eight hours		
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)		
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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);

according to Regulation (EC) No. 1907/2006



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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 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; TECI - Thailand Existing Chemicals 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

Classification of the mixtur	e:	Classification procedure:
Flam. Sol. 1	H228	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method

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.

GB / EN