

 Trade name :
 Universal-Polyesterpulver 5918 (SORTE 5918)

 Revision date :
 11.06.2018

 Print date :
 11.06.2018

Version (Revision) :

12.0.0 (11.0.1)

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

1.1 Product identifier

Universal-Polyesterpulver 5918 (SORTE 5918)

 1.2 Relevant identified uses of the substance or mixture and uses advised against Powder coating. Intended purpose see technical data sheet.
 Relevant identified uses

Product Categories [PC]

PC9 - Coatings and paints, fillers, putties, thinners

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co. KG, Industrielack www.brillux-industrielack.de

Street : Otto-Hahn-Straße 14

Postal code/city: D-59423 Unna

Telephone: +49 2303 8805-0

Telefax : +49 2303 8805-119

Information contact : E-mail address of the competent person for safety data sheets: sdb@brillux-industrielack.de

1.4 Emergency telephone number

Giftinformationszentrum-Nord (poisons centre), consultation in german and english Telephone: +49 551 19 24 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms



Corrosion (GHS05)
Signal word
Danger
Hazard components for labelling
Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate
Hazard statements
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements



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P260	Do not breathe dust/fume/gas/mist/vapour	rs/spray.	
P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clothing/	eye protection/face protection	۱.
P284	Wear respiratory protection.		
P310	Immediately call a POISON CENTER or a do	octor.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for and easy to do. Continue rinsing.	r several minutes. Remove cor	ntact lenses, if present
Special rules for su	pplemental label elements for certain mi	ixtures	
EUH205	Contains epoxy constituents. May produce	an allergic reaction.	
EUH208	Contains Reaction mass of bis(2,3-epoxypr benzene-1,2,4-tricarboxylate.May produce		oxiranylmethyl)

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate ; REACHregistration No. : 01-2120065788-39 ; EC No. : 940-592-6Weight fraction : $\geq 3 - < 5 \%$ Classification 1272/2008 [CLP] :STOT RE 2 ; H373 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411Tetradecyl-trimethyl-ammoniumbromid ; EC No. : 214-291-9; CAS No. : 1119-97-7Weight fraction : $\geq 0,025 - < 0,25 \%$ Classification 1272/2008 [CLP] :Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Change contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Wash immediately with: Water and soap Do not wash with: Solvents/Thinner

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. No direct artificial respiration to be given by first aider.

4.2 Most important symptoms and effects, both acute and delayed No information available.

4.3 Indication of any immediate medical attention and special treatment needed None



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder, alcohol resistant foam, carbon dioxide (CO_2), water spray. The fire fighting for manuell and selfacting powder coating systems conformable BGI 764 the extingshent agent CO_2 can be used by movable tool and fight fire extingquishing system. For using other extingshent agent than CO_2 the effectiveness must be proved.

Unsuitable extinguishing media

Full water jet, inert gas with high pressure.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO_2) and pyrolysis products, toxic.

5.3 Advice for firefighters

Special protective equipment for firefighters Use suitable breathing apparatus.

5.4 Additional information

Burning produces heavy smoke. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. See protective measures under point 7 and 8. Avoid dust formation. Do not inhale product dusts.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Take up dust-free and set down dust-free. Use approved industrial vacuum cleaner for removal. (Vacuum cleaner construction B1, appropriate to suck up combustible dust). Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid: Generation/formation of dust, dust deposits, inhalation of dust/particles. Only use the material in places where open light, fire and other flammable sources can be kept away. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Measures to prevent fire

Dust can form an explosive mixture with air. Take precautionary measures against static discharges. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean.

Hints on joint storage

Storage class (TRGS 510): 11



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	Do not store together with	
	Strong acid, strong alkali, oxidising	g agent, food and feedingstuffs.
	Further information on sto	prage conditions
	Do not store at temperatures al	-
	Protect against : Humidity.	
7.3	Specific end use(s)	
	Powder coating. Intended purpose se	ee technical data sheet.
SEC	TION 8: Exposure controls/	personal protection
8.1	Control parameters	
	Occupational exposure lim	nit values
	GENERAL LIMIT VALUE FOR DUST	
	Limit value type (country of origin) :	TRGS 900 (D)
	Parameter :	A: respirable fraction
	Limit value :	1,25 mg/m ³
	Peak limitation :	2(II)
	Version :	17.10.2017
	Limit value type (country of origin) :	TRGS 900 (D)
	Parameter :	E: inhalable fraction
	Limit value :	10 mg/m ³
	Peak limitation :	2(II)
	Version :	17.10.2017
	DNEL/DMEL and PNEC val	ues
	DNEL/DMEL	
		DNEL/DMEL (Industrial) (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate)
	Exposure route :	Dermal
		Long-term (repeated)
		0,25 mg/kg
		DNEL/DMEL (Industrial) (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate)
		Inhalation
		Long-term (repeated) 0,88 mg/m ³
	PNEC	
		PNEC (Aquatic, freshwater) (Reaction mass of bis(2,3-epoxypropyl) terephthalate and
		tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate) 0,00272 mg/l
		PNEC Intermittierende Einleitung (Reaction mass of bis(2,3-epoxypropyl) terephthalate
		and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate)
		0,0272 mg/l
		PNEC (Soil) (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate)
		0,00721 mg/kg
		PNEC (Sewage treatment plant) (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate)
		32 mg/l
8.2	Exposure controls	
	Personal protection equip	ment
	Eye/face protection	
	Suitable eye protection	
	Dust protection eye glasses	
	Remark	

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Note DGUV-Rule 112-192.

Skin protection

Hand protection

Suitable gloves type : Disposable gloves. Gloves with long cuffs

Required properties : dust-tight.

Remark : After washing hands replace lost skin fat by fat containing skin creams. Note DGUV-Rule 112-195. Note TRGS 401.

Body protection

Personel should wear protective clothings and all parts of the body should be washed after contact. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at neck and wrists through contact with the powder is avoided.

Recommended material : Natural fibres (e.g. cotton), heat-resistant synthetic fibres.

Remark : Note DGUV-Rule 112-189. Note TRGS 401.

Respiratory protection

Respiratory protection necessary at: insufficient exhaust

Suitable respiratory protection apparatus

Use breathing filter P2 (particle).

European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Note TRGS 402.

General health and safety measures

Used working clothes should not be worn outside the work area.

Occupational exposure controls

Technical measures to prevent exposure

Technical measures and the application of suitable work processes have priority over personal protection equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Powder (1-150 μm) **Colour :** According to product identification.

Odour

Poor, characteristic.

Safety relevant basis dat Melting point/melting range : Initial boiling point and boiling	a (1013 hPa)	>	50 not applicable	°C
range : Decomposition temperature : Flash point :		>	250 not applicable	°C
Ignition temperature :		>	450	°C
Lower explosion limit :		approx.	50 - 70	g/m³
Upper explosion limit :			No data available	
Vapour pressure :	(50 °C)		not applicable	
Density :	(23 °C)		1,4 - 1,8	g/cm ³
Water solubility :	(20 °C)		insoluble	
рН :			No data available	
log P O/W :			not relevant	
Viscosity :	(23 °C)		not applicable	
Cinematic viscosity :	(40 °C)		not applicable	
Solid content :			100	Wt %

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Odour threshold : Relative vapour density : Vapourisation rate : Flammable solids : Oxidising solids :

(20 °C) Not highly flammable. Not oxidising. not relevant not applicable not applicable

9.2 **Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

- **10.3 Possibility of hazardous reactions** No information available.
- **10.4 Conditions to avoid** No information available.
- **10.5 Incompatible materials** No information available.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects Acute oral toxicity

benzene-1,2,4-tricarboxylate)Exposure route :OralSpecies :RatEffective dose :300 - 2000 mg/kgParameter :LD50 (Tetradecyl-trimethyl-ammoniumbromid ; CAS No. : 1119-97-7)Exposure route :OralSpecies :RatEffective dose :> 2500 mg/kgAcute dermal toxicityParameter :ATEmix calculatedExposure route :DermalEffective dose :not relevant	,	
Effective dose :11111 mg/kgParameter :LD50 (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylm benzene-1,2,4-tricarboxylate)Exposure route :OralSpecies :RatEffective dose :300 - 2000 mg/kgParameter :LD50 (Tetradecyl-trimethyl-ammoniumbromid ; CAS No. : 1119-97-7)Exposure route :OralSpecies :RatEffective dose :> 2500 mg/kgAcute dermal toxicityParameter :ATEmix calculatedExposure route :DermalEffective dose :not relevantParameter :LD50 (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylm benzene-1,2,4-tricarboxylate)Exposure route :DermalEffective dose :not relevantParameter :LD50 (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylm benzene-1,2,4-tricarboxylate)Exposure route :DermalSpecies :RatEffective dose :> 2000 mg/kgAcute inhalation toxicityParameter :Parameter :ATEmix calculatedExposure route :> 2000 mg/kgAcute inhalation toxicityParameter :Parameter :ATEmix calculatedExposure route :Inhalative (dust, mist)	Parameter :	ATEmix calculated
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Acute inhalation toxicity ATEmix calculated Parameter : ATEmix calculated Exposure route : Inhalative (dust, mist)	Species :	Rat
Parameter : ATEmix calculated Exposure route : Inhalative (dust, mist)	Effective dose :	> 2000 mg/kg
Exposure route : Inhalative (dust, mist)	Acute inhalation toxicity	
	Parameter :	ATEmix calculated
Effective dose : not relevant	Exposure route :	Inhalative (dust, mist)
	Effective dose :	not relevant

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Parameter :ATEmix calculated (Tetradecyl-trimethyl-ammoniumbromid ; CAS No. : 1119-97-7)Exposure route :InhalationEffective dose :88 mg/l

Sensitisation

According to information given by the manufacturer the ingredient "Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate" are not sensitising in a concentration of less than 5.5 %.

In case of skin contact

Practical experience/human evidence

Once sensitized on epoxy constituents, a severe allergic reaction may occur when subsequently exposed to very low levels.

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

Parameter :	NOAEL(C) (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate)
Exposure route :	Oral
Species :	Rat
Effective dose :	75 mg/kg
Parameter :	NOEL(C) (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate)
Exposure route :	Oral
Species :	Rat
Effective dose :	75 mg/kg

11.3 Symptoms related to the physical, chemical and toxicological characteristics

In case of skin contact

Powder coatings can cause localised skin irritation in folds of the skin or in contact with tight clothing.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) fish Parameter :	LC50 (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl)
Falameter .	benzene-1,2,4-tricarboxylate)
Effective dose :	8,8 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (Tetradecyl-trimethyl-ammoniumbromid ; CAS No. : 1119-97-7)
Effective dose :	1,81 mg/l
Exposure time :	96 h
Acute (short-term) dap	nnia toxicity
Parameter :	EC50 (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate)
Effective dose :	81 mg/l
Exposure time :	48 h
Method :	OECD 202
Parameter :	EC50 (Tetradecyl-trimethyl-ammoniumbromid; CAS No.: 1119-97-7)
Effective dose :	0,022 mg/l
Exposure time :	48 h
Acute (short-term) alga	e toxicity
Parameter :	EC50 (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate)
Effective dose :	2,72 mg/l
Exposure time :	72 h
Parameter :	ErC50 (Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl)

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		benzene-1,2,4-tricarboxylate)		
Effective dose :		2,94 mg/l		
Exposure time :		72 h		
Method :		OECD 201		
Parameter :		IC50 (Tetradecyl-trimethyl-amn	noniumbromid ; CAS No. : 1119-97	7-7)
Effective dose :		0,0054 mg/l		
Exposure time :		72 h		
Chronic (long-ter	n) algae toxi	-		
Parameter :		benzene-1,2,4-tricarboxylate)	3-epoxypropyl) terephthalate and	tris(oxiranylmethyl
Effective dose :		0,368 mg/l		
Exposure time :		72 h	anaversary () torophthalate and	tric(oviron) (moth)
Parameter : Effective dose :		benzene-1,2,4-tricarboxylate)	3-epoxypropyl) terephthalate and	uns(oxiranyimeunyi
Exposure time :		0,327 mg/l 72 h		
Method :		OECD 201		
Bacteria toxicity				
Parameter :		EC50 (Reaction mass of bis(2,3 benzene-1,2,4-tricarboxylate)	-epoxypropyl) terephthalate and	tris(oxiranylmethyl)
Effective dose :		> 1000 mg/l		
Exposure time :		3 h		
12.2 Persistence and	degradabi	ility		
Abiotic degrada	-	- 2		
-		e sewage plant is possible.		
		sewage plant is possible.		
Biodegradation		- le 11 de la della d		
		ability the product is poorly biode	egradable.	
12.3 Bioaccumulative	-			
No information availa	ole.			
12.4 Mobility in soil				
No information availa	ole.			
12.5 Results of PBT a	nd vPvB a	ssessment		
The substances in the	mixture do no	ot meet the PBT/vPvB criteria acc	cording to REACH, annex XIII.	
12.6 Other adverse e	ffects		-	
No information availa				
12.7 Additional ecoto		linformation		
Additional informat	-			
		a of product into the anvironmer	h	
		e of product into the environmer	ll.	
SECTION 13: Disposa	al considei	rations		
13.1 Waste treatmen	t methods			
The allocation of was industry and process.		bers/waste descriptions must be ding to legislation.	e carried out according to the EE	C, specific to the
Product/Packag	ging dispo	sal		
Waste codes/was	te designatio	ons according to EWC/AVV		
Waste code prod	-			
EWC-Code: 08 02				
Waste treatment	options			
Appropriate disp	osal / Packa	ge an be recycled. Handle contamina	ated packages in the same way	as the substance
itself.			, , ,	

13.2 Additional information

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Note sections 7 and 8.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National regulations

Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to AwSV

Other regulations, restrictions and prohibition regulations

Note TRGS 001. Note TRGS 400.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 02. Special rules for supplemental label elements for certain mixtures · 15. Water hazard class (WGK)

16.2 Abbreviations and acronyms

TRGS: German Technical Rule for Hazardous Substances. BGR(I): Rule (Information) from the german employers liability insurance association. DGUV: German Statutory Accident Insurance. AwSV: Ordinance on plants for the handling of substances hazardous to water. VCI: German chemical industry association. EWC: European Waste Catalogue.

16.3 Key literature references and sources for data

None

^{16.4} Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)

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H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
16.6 Training adv	ice		

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.