according to Regulation (EC) No. 1907/2006



HELIOS REFINISH CLEARCOAT TINTER

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

1.1 Product identifier

on use

Trade name	:	HELIOS REFINISH CLEARCOAT TINTER
Product code	:	48158611
Unique Formula Identifier (UFI)	:	6E5H-U1YM-400U-UKQW

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

Use of the Sub- stance/Mixture	:	PC9a Coatings and paints, thinners, paint removers
Recommended restrictions	:	Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company	: Helios TBLUS d.o.o. Količevo 65 1230 Domžale Slovenia
Telephone Company	: 386 (1) 722 4383
Telefax Company	: 386 (1) 722 4310
Responsible/issuing person	: 386 (1) 722 4383 productsafety@helios.si

1.4 Emergency telephone number

- 01 809 2166 National Poisons Information Centre 01 809 2166
- 01 809 2566 Healtcare Professionals 01 809 2566
- 01 809 2566 Healtcare Professionals 01 809 2566

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.

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posur syste Speci posur Speci expos	ific target organ toxic re, Category 3, Resp ific target organ toxic sure, Category 2 -term (chronic) aqua v 3	ral nervous city - single ex- iratory system city - repeated	 H336: May cause drowsiness or dizziness. H335: May cause respiratory irritation. H373: May cause damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.
Labe	lling (REGULATION	I (EC) No 1272/2	008)
	rd pictograms		
Signa	al word	: Warning	• •
Haza	rd statements	H315 (H319 (H335 M H336 M H373 M repeated	Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or exposure. Harmful to aquatic life with long lasting effects.
Preca	autionary statements	P210 k flames at P260 [P264 V P273 k P280 V tion/ face	Keep away from heat, hot surfaces, sparks, open nd other ignition sources. No smoking. Do not breathe mist or vapours. Vash skin thoroughly after handling. Avoid release to the environment. Vear protective gloves/ protective clothing/ eye protec- e protection/ hearing protection.
		Respons P370 + F alcohol-r	
Haza	rdous components	which must be	listed on the label:
n-but	ion mixture of ethylb yl acetate thoxy-1-methylethyl		e and p-xylene

Additional Labelling

EUH208 Contains mixture of benzotriazole, mixture of sterically composed sebacates. May produce an allergic reaction. according to Regulation (EC) No. 1907/2006



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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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
	Registration number		
reaction mixture of ethylbenzene, m-xylene and p-xylene	- 905-562-9 01-2119555267-33	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304	>= 30 - < 50
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	>= 20 - < 30
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
reaction mass of α-3-(3-(2H- benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyl-ω- hydroxypoly(oxyethylene) and α- 3-(3-(2H-benzotriazol-2-yl)-5-tert- butyl-4-hydroxyphenyl)propionyl- ω-3-(3-(2H-benzotriazol-2-yl)-5- tert-butyl-4- hydroxy- phe- nyl)propionyloxypoly(oxyethylene)	104810-48-2 400-830-7 607-176-00-3 01-0000015075-76	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.25 - < 1

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penta and n	tion mass of bis(1,2, methyl-4-piperidyl) s nethyl 1,2,2,6,6-pen eridyl sebacate	sebacate	1065336-91-5 915-687-0 01-2119491304-40	Skin Sens. 1; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1

SECTION 4: First aid measures

4.1 Description of first aid me	asures
General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	 If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	 Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. 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. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
4.2 Most important symptoms	and effects, both acute and delayed
Risks	 Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
1.2 Indication of any immedia	to modical attention and aposial treatment peopled

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
5.3 Advice for firefighters		
-	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored sepa- rately in closed containments. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas.
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

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Contain spillage, and then collect with non-combustible ab-
		sorbent material, (e.g. sand, earth, diatomaceous earth, ver-

respective authorities.

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miculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Avoid formation of aerosol. 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 ap- plication area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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,	incl	uding any incompatibilities
Requirements for storage areas and containers	:	No smoking. Keep container tightly closed in a dry and well- ventilated place. Containers which are opened must be care- fully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.
7.3 Specific end use(s)		
Specific use(s)	:	For further information, refer to the product technical data sheet.
		Consult the technical guidelines for the use of this sub- stance/mixture.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
reaction mixture of ethylbenzene, m- xylene and p- xylene	1330-20-7	OELV - 8 hrs (TWA)	50 ppm 221 mg/m3	IE OEL
			which have the capacity to pe ith it, and be absorbed into th	
		OELV - 15 min (STEL)	100 ppm 442 mg/m3	IE OEL
			which have the capacity to pe ith it, and be absorbed into th	
		TWA	50 ppm 221 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant uptal	ke through the
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant uptal	ke through the
n-butyl acetate	123-86-4	OELV - 8 hrs (TWA)	50 ppm 241 mg/m3	IE OEL
		OELV - 15 min (STEL)	150 ppm 723 mg/m3	IE OEL
		STEL	150 ppm 723 mg/m3	2019/1831/E U
	Further inform	ation: Indicative		
		TWA	50 ppm 241 mg/m3	2019/1831/E U
	Further inform	ation: Indicative		
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant uptal	ke through the
		TWA	50 ppm 275 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant uptal	ke through the
		OELV - 8 hrs (TWA)	50 ppm 275 mg/m3	IE OEL
			which have the capacity to pe ith it, and be absorbed into th	
		OELV - 15 min (STEL)	100 ppm 550 mg/m3	IE OEL
	Further inform	nation: Substances w	which have the capacity to pe	netrate intact

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Derived No Effect Le	vel (DNEL) acco	rding to Regulation	(EC) No. 1907/2006:	
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
reaction mixture of ethylbenzene, m- xylene and p-xylene	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	65.3 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	442 mg/m3
	Workers	Inhalation	Acute local effects	289 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	260 mg/m3
	Workers	Inhalation	Long-term local ef- fects	221 mg/m3
	Consumers	Inhalation	Long-term systemic effects	14.8 mg/m3
	Consumers	Inhalation	Acute local effects	260 mg/m3
	Consumers	Dermal	Long-term systemic effects	108 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	16 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	180 mg/kg bw/day
n-butyl acetate	Workers	Inhalation	Acute systemic ef- fects	600 mg/m3
	Workers	Inhalation	Acute local effects	600 mg/m3
	Workers	Inhalation	Long-term systemic effects	48 mg/m3
	Workers	Inhalation	Long-term local ef- fects	300 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	300 mg/m3
	Consumers	Inhalation	Acute local effects	300 mg/m3
	Consumers	Inhalation	Long-term systemic effects	12 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	35.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	3.4 mg/kg bw/day
	Consumers	Dermal	Acute systemic ef- fects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Oral	Acute systemic ef- fects	2 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	7 mg/kg bw/day
	Workers	Dermal	Acute systemic ef- fects	11 mg/kg bw/day

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bw<u>/day</u>

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di	,12- ihydroquino[2,3-]acridine-7,14-dione	Workers	Dermal	Long-term systemic effects	42 mg/m3
		Workers	Inhalation	Long-term systemic effects	147 mg/m3
		Consumers	Dermal	Long-term systemic effects	25 mg/kg bw/day
		Consumers	Oral	Long-term systemic effects	25 mg/kg bw/day
	-methoxy-1- hethylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
		Workers	Inhalation	Acute local effects	550 mg/m3
		Consumers	Inhalation	Long-term systemic effects	33 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	33 mg/m3
		Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
		Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
		Consumers	Oral	Long-term systemic	36 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

effects

Substance name	Environmental Compartment	Value
reaction mixture of ethylbenzene,	Soil	2.31 mg/kg dry
m-xylene and p-xylene		weight (d.w.)
	Marine water	0.327 mg/l
	Fresh water	0.327 mg/l
	Marine sediment	12.46 mg/kg dry
		weight (d.w.)
	Fresh water sediment	12.46 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	6.58 mg/l
	Intermittent use/release	0.327 mg/l
n-butyl acetate	Soil	0.0903 mg/kg dry
		weight (d.w.)
	Marine water	0.018 mg/l
	Fresh water	0.18 mg/l
	Marine sediment	0.0981 mg/kg dry
		weight (d.w.)
	Fresh water sediment	0.981 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	35.6 mg/l
	Intermittent use/release	0.36 mg/l
2-methoxy-1-methylethyl acetate	Soil	0.29 mg/kg dry
		weight (d.w.)
	Marine water	0.0635 mg/l
	Fresh water	0.635 mg/l
	Marine sediment	0.329 mg/kg dry
		weight (d.w.)
	Fresh water sediment	3.29 mg/kg dry

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	weight (d.w.)
Sewage treatment plant	100 mg/l
Intermittent use/release	0.00635 mg/l

8.2 Exposure controls

Personal protective equipment	
Eye/face protection :	Equipment should conform to EN 166 Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Hand protection	
Gloves :	Viton® (> 0,6 mm; < 240 min); DIN EN374 PE laminate (> 0,1 mm; < 240 min); DIN EN374
Remarks :	The suitability for a specific workplace should be discussed with the producers of the protective gloves. 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 condi- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Skin and body protection :	Impervious clothing Choose body protection according to the amount and con- centration of the dangerous substance at the work place.
Respiratory protection :	Use respiratory protection unless adequate local exhaust ven- tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Equipment should conform to EN 14387
Filter type :	Organic vapour type (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Colour Odour Odour Threshold	: : :	liquid in accordance with the product description solvent-like No data available
Melting point/freezing point	:	-78.0 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	:	126 °C (calculation method (principal components, lowest value))
Flammability	:	Static-accumulating flammable liquid., Combustible Solids
Upper explosion limit / Upper flammability limit	:	7.5 %(V) (calculation method (principal components, highest value))

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		explosion limit / Lov bility limit	ver :	1.1 %(V) (calculation method (principal components, highest value))
	Flash p	oint	:	25 °C
	Ignition	temperature	:	425 °C (calculation method (principal components, highest value))
	Decom	position temperatu	re :	No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire condi- tions.
	pН		:	Not applicable
	Viscosi Visc	ty cosity, kinematic	:	> 20.5 mm2/s (40 °C)
		ty(ies) er solubility ıbility in other solve	: ents :	immiscible, partly soluble Description: miscible with most organic solvents
	Partitio octanol	n coefficient: n- /water	:	log Pow: 2.77 - 3.15 (calculation method (principal compo- nents, highest value))
	Vapour	pressure	:	< 1,100 hPa (calculation method (principal components, high est value)) (50 °C)
	Relativ	e density	:	No data available
	Density	,	:	0.96 - 1.14 g/cm3
	Relativ	e vapour density	:	No data available
9.2 (Other ir	formation		
	Explosi	ves	:	Not applicable
	Oxidiziı	ng properties	:	Sustains combustion
	VOC		:	(Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)) 63.5 %

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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	:	No decomposition if stored and applied as directed.
		Vapours may form explosive mixture with air.
10.4 Conditions to avoid Conditions to avoid	:	Heat, flames and sparks.
10.5 Incompatible materials		

Materials to avoid	:	Incompatible with strong acids and bases.
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10.6 Hazardous decomposition products

Adequate ventilation is required. Heating can release vapours which can be ignited. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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.

Product:

Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:				
Acute oral toxicity	:	LD50 Oral (Rat): >= 8,700 mg/kg		
Acute inhalation toxicity	:	Test atmosphere: vapour Assessment: The component/mixture is moderately toxic after short term inhalation.		

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Acute	e dermal toxicity	: Assessment: The single contact w	ne component/mixture is moderately toxic after vithskin.
n-but	yl acetate:		
Acute	oral toxicity	: LD50 Oral (Rat): >= 10,760 mg/kg
Acute	e dermal toxicity	: LD50 (Rabbit):	>= 5,000 mg/kg
2-met	thoxy-1-methylethy	l acetate:	
Acute	oral toxicity	: LD50 Oral (Rat): > > 2,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > 5 Test atmospher	
		LC0 (Rat): 2000 Exposure time:	
Acute	e dermal toxicity	: LD50 (Rabbit):	> > 2,000 mg/kg
-	corrosion/irritation es skin irritation.		
<u>Produ</u> Rema		: May cause skin	irritation and/or dermatitis.
<u>Com</u>	oonents:		
react Resul	-	benzene, m-xylene an : irritating	d p-xylene:
	us eye damage/eye es serious eye irritat		
Produ	uct:		
Rema	arks	: May cause irrev	versible eye damage.
<u>Com</u>	oonents:		
react i Resul	•	Ibenzene, m-xylene an : Eye irritation	d p-xylene:
Resp	iratory or skin sens	sitisation	
Skin	sensitisation lassified based on av		
Resp	iratory sensitisatio lassified based on av	n	

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<u>Produ</u>	<u>uct:</u>		
Rema	ırks	: Causes sensiti	sation.
<u>Com</u>	oonents:		
mixtu	re of benzotriazol	e:	
Resul	t	: Probability or e	vidence of skin sensitisation in humans
mixtu	re of sterically co	mposed sebacates:	
Resul	t	: May cause ser	sitisation by skin contact.
	cell mutagenicity assified based on a	available information.	
	nogenicity assified based on a	available information.	
•	oductive toxicity assified based on a	available information.	
<u>Comp</u>	oonents:		
	oductive toxicity - As		e of adverse effects on sexual function and on animal experiments.
May c	- single exposure cause respiratory irr cause drowsiness o	itation.	
<u>Comp</u>	oonents:		
react	ion mixture of eth	ylbenzene, m-xylene an	d p-xylene:
Asses	ssment	: May cause res	piratory irritation.
n-but	yl acetate:		
Asses	sment	: May cause dro	wsiness or dizziness.
2-met	hoxy-1-methyleth	yl acetate:	
	ssment	-	wsiness or dizziness.
	- repeated expos cause damage to or	ure gans through prolonged	or repeated exposure.
Com	oonents:		
react	ion mixture of eth	ylbenzene, m-xylene an	
Asses	sment	: May cause dar	nage to organs through prolonged or repeat

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Aspiration toxicity

Not classified based on available information.

Components:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Further information		
Product:		
Remarks	:	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:

reaction mixture of ethylbenzene, m-xylene and p-xylene:

Toxicity to fish		LC50 (Fish): >= 1 - 10 mg/l
, I	:	LC50 (Daphnia (water flea)): >= 1 - 10 mg/l
aquatic invertebrates Toxicity to microorganisms	:	EC50 (Bacteria): >= 1 - 100 mg/l
n-butyl acetate:		
Toxicity to algae/aquatic plants	:	NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l
planto		EC50 (Desmodesmus subspicatus (green algae)): >= 647.7 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	IC50 (Tetrahymena pyriformis): 356 mg/l

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			Exposure time: 40 h	
2-me	thoxy-1-methylethyl	aceta	te:	
Toxic	ity to fish	:	LC50 (Oncorhynchu Exposure time: 96 h	is mykiss (rainbow trout)): 130 mg/l
			NOEC : 100 mg/l Exposure time: 96 h	1
	ity to daphnia and oth tic invertebrates	er :	LC50 : 408 mg/l Exposure time: 48 h	1
Toxic icity)	ity to fish (Chronic tox	:- :	EC10: 47.5 mg/l	
mixtu	re of benzotriazole:			
	oxicology Assessme nic aquatic toxicity		Toxic to aquatic life	with long lasting effects.
mixtu	ire of sterically com	posed	sebacates:	
	oxicology Assessme aquatic toxicity		Very toxic to aquatic	c life.
Chror	nic aquatic toxicity	:	Very toxic to aquation	c life with long lasting effects.
2.2 Persi	istence and degrada	bility		
Com	ponents:			
react	ion mixture of ethylk	oenzei	ne, m-xylene and p->	kylene:
Biode	egradability	:	Readily biodegradat	ole.
Photo	odegradation	:	Decomposes rapidly	in contact with light.
n-but	yl acetate:			
Biode	gradability	:	Result: Biodegradat Biodegradation: 83 Exposure time: 28 d Method: OECD Test	% I
Stabi	lity in water	:	Degradation half life pH: 8 Hydrolyses slowly.	:: 78 d
Photo	odegradation	:	Decomposes rapidly	in contact with light.
2-me	thoxy-1-methylethyl	aceta	te:	
	gradability	:	Readily biodegradat	ole.

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12.3 Bioaccumulative potential

Components:						
reaction mixture of ethylbenzene, m-xylene and p-xylene:						
Bioaccumulation	: Bioconcentration factor (BCF): 25.9 Bioaccumulation is unlikely.					
Partition coefficient: n- octanol/water	: log Pow: 2.77 - 3.15					
n-butyl acetate:						
Bioaccumulation	: Bioconcentration factor (BCF): 15 Bioaccumulation is unlikely.					
Partition coefficient: n- octanol/water	: log Pow: 1.81					
2-methoxy-1-methylethyl a	cetate:					
Partition coefficient: n- octanol/water	: log Pow: 1.2 (20 °C) pH: 6.8					
mixture of sterically compo	osed sebacates:					
Partition coefficient: n- octanol/water	: log Pow: 2.37 - 2.77 pH: 7					
12.4 Mobility in soil						
Components:						
reaction mixture of ethylbe	enzene, m-xylene and p-xylene:					
Distribution among environ- mental compartments	: Koc: 537, log Koc: 2.73 Moderately mobile in soils The product evaporates from soil.					
Stability in soil	: Dissipation time: 23 d Percentage dissipation: 50 % (DT50)					
12.5 Results of PBT and vPvB a	assessment					
Product:						
Assessment	: 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.					
12.6 Endocrine disrupting prop	erties					

Product:

Assessment	:	The substance/mixture does not contain components consid-
		ered to have endocrine disrupting properties according to

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			le 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at 6 or higher.
12.7 Othe	r adverse effects		
<u>Prod</u>	uct:		
Addit matio	ional ecological infor- n	unprofession	ental hazard cannot be excluded in the event of al handling or disposal. quatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Waste Code	 08 00 00, WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS 08 01 00, wastes from MFSU and removal of paint and var- nish 08 01 11, waste paint and varnish containing organic solvents or other hazardoussubstances 15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED 15 01 00, packaging (including separately collected municipal packaging waste) 15 01 10, packaging containing residues of or contaminated by hazardoussubstances HP3, Flammable HP4, Irritant - skin irritation and eye damage HP5, Specific Target Organ Toxicity (STOT)/Aspiration Toxici- ty

SECTION 14: Transport information

14.1 UN number or ID number

ADN

: UN 1263

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ADR		: UN 1263	
RID		: UN 1263	
IMDG	ì	: UN 1263	
IATA		: UN 1263	
	roper shipping name		
ADN		: PAINT	
ADR		: PAINT	
RID		: PAINT	
IMDG	ì	: PAINT	
IATA		: Paint	
	sport hazard class(e		
		Class	Subsidiary risks
ADN		: 3	·
ADR		: 3	
RID		: 3	
IMDG	ì	: 3	
ΙΑΤΑ		: 3	
14.4 Pack	ing group		
ADN			
Packi	ng group	: 111	
	ification Code rd Identification Numb	: F1	
Label		er : 30 : 3	
ADR			
Packi	ng group	: 111	
	ification Code rd Identification Numb	: F1 er : 30	
Label		: 3	
	el restriction code	: (D/E)	
RID			
Packi	ng group	: 111	
	ification Code	: F1	
Haza Label	rd Identification Numb s	er : 30 : 3	
IMDG			
	, ng group	: 111	
Label	S	: 3	
EmS	Code	: F-E, <u>S-E</u>	
	(Cargo)	000	
Packi	ng instruction (cargo	: 366	

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F		g instruction (LQ) g group	:	Y344 III Flammable Liquids		
F G F F	Packing ger airc Packing	Passenger) g instruction (passer raft) g instruction (LQ) g group	n- : : :	355 Y344 III Flammable Liquids		
14.5 I	Enviro	nmental hazards				
-	ADN Environ	mentally hazardous	s :	no		
-	ADR Environ	mentally hazardous	s :	no		
	RID Environ	mentally hazardous	s :	no		
-	IMDG Marine	pollutant	:	no		
	14.6 Special precautions for user					
Г	The transport classification(s) provided herein are for informational purposes only, and solely					

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

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 fol- lowing entries should be considered: Number on list 75, 3
		If you intend to use this product as tattoo ink, please contact your ven- dor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia-	:	Not applicable

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ment and the Council concerning the export and import of dangerous chemicals REACH - List of substances subject to authorisation : Not applicable (Annex XIV)						
Seveso III: Directive 2012/18/EU of the Euro-P5c FLAMMABLE LIQUIDS pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.						
Volatil	e organic compoun	emissions (integrat	EU of 24 November 2010 on industrial ed pollution prevention and control) mpounds (VOC) content: 63.5 %			

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements		
H226 H304 H312 H315 H317 H319 H332 H335 H336 H361f	:	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging fertility.
H373 H400 H410 H411 EUH066		May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.
Full text of other abbreviation	ns	
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Irrit. Flam. Liq. Repr.	::	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Eye irritation Flammable liquids Reproductive toxicity

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Skin lı	rrit.	:	Skin irritation			
Skin S	Sens.	:	Skin sensitisation			
STOT	RE	:	Specific target organ	toxicity - repeated exposure		
STOT	SE	:		toxicity - single exposure		
2000/3	39/EC	:		Europe. Commission Directive 2000/39/EC establishing a first		
			list of indicative occu	pational exposure limit values		
2019/ [.]	1831/EU	:		Directive 2019/1831/EU establishing a		
				occupational exposure limit values		
IE OE	L	:		ical Agents and Occupational Exposure		
			Limit Values - Sched			
2000/3	39/EC / TWA	:	Limit Value - eight hours			
2000/3	39/EC / STEL	:	Short term exposure limit			
2019/ [,]	2019/1831/EU / TWA		Limit Value - eight hours			
2019/ [.]	1831/EU / STEL	:	Short term exposure			
IE OE	L / OELV - 8 hrs (TW)	A) :	Occupational exposu	re limit value (8-hour reference period)		
IE OE	L / OELV - 15 min	:	Occupational exposu	re limit value (15-minute reference peri-		
(STEL	_)		od)			

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); 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

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Classification of the mixture:			Classification procedure:
Flam. Liq. 3		H226	Based on product data or assessment
Skin Irrit. 2		H315	Calculation method
Eye Irrit. 2		H319	Calculation method
STOT SE 3		H336	Calculation method
STOT SE 3		H335	Calculation method
STOT RE 2		H373	Calculation method
Aquatic Chronic 3		H412	Calculation method

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