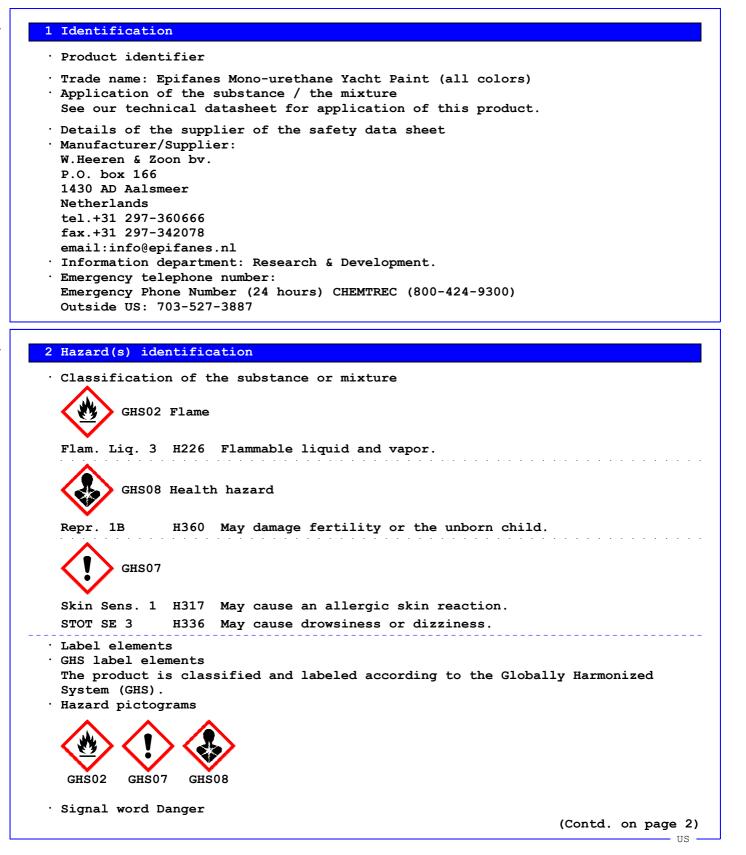


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Trade name: Epifanes Mono-urethane Yacht Paint (all colors) (Contd. of page 1) · Hazard-determining components of labeling: Naphtha (petroleum), hydrotreated heavy (Note-p) cobalt bis(2-ethylhexanoate) · Hazard statements H226 Flammable liquid and vapor. H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child. H336 May cause drowsiness or dizziness. · Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 If swallowed: Immediately call a poison center/doctor. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P501 Dispose of contents/container in accordance with local/regional/ national/international regulations. · Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 2Reactivity = 0HMIS-ratings (scale 0 - 4) HEALTH 0 Health = 0Fire = 2FIRE 2 Reactivity = 0REACTIVITY 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

## 3 Composition/information on ingredients

Chemical characterization: Mixtures
Description: Resin mixture Solvent mixture with pigment additives

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#### Trade name: Epifanes Mono-urethane Yacht Paint (all colors)

(Contd. d	of page 2
titanium dioxide & Carc. 2, H351	25-50%
Naphtha (petroleum), hydrotreated heavy (Note-p) Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336	10-25%
<pre>cobalt bis(2-ethylhexanoate) Carc. 2, H351; Repr. 1B, H360 Eye Irrit. 2A, H319; Skin Sens. 1A, H317</pre>	<0.3%
	<ul> <li>Carc. 2, H351</li> <li>Naphtha (petroleum), hydrotreated heavy (Note-p)</li> <li>Flam. Liq. 3, H226</li> <li>Asp. Tox. 1, H304</li> <li>STOT SE 3, H336</li> <li>cobalt bis(2-ethylhexanoate)</li> <li>Carc. 2, H351; Repr. 1B, H360</li> </ul>

For the wording of the listed hazard phrases refer to section 16.

## 4 First-aid measures

Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- Indication of any immediate medical attention and special treatment needed If swallowed, gastric irrigation with added, activated carbon.

## 5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
   Formation of toxic gases is possible during heating or in case of fire.
   During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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6 Accidental	release measures	
Ensure adeq Keep away f Mount respi Wear protec Environment Prevent see Do not allo Methods and Absorb with binders, sa Dispose con Ensure adeq Reference t See Section See Section	<pre>taminated material as waste according to item 13. uate ventilation. o other sections 7 for information on safe handling. 8 for information on personal protection equipment. 13 for disposal information.</pre>	
	Action Criteria for Chemicals	
• PAC-1:		
	titanium dioxide	30 mg/m <sup>3</sup>
	Naphtha (petroleum), hydrotreated heavy (Note-p)	350 mg/m <sup>3</sup>
	2,6-dimethylheptan-4-one	75 ppm
	n-butyl acetate	5 ppm
	2-methoxy-1-methylethyl acetate	50 ppm
78-92-2	butanol	150 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
· PAC-2:		
13463-67-7	titanium dioxide	330 mg/m <sup>3</sup>
64742-48-9	Naphtha (petroleum), hydrotreated heavy (Note-p)	1,800 mg/m <sup>3</sup>
108-83-8	2,6-dimethylheptan-4-one	330 ppm
123-86-4	n-butyl acetate	200 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
	butanol	220 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
• PAC-3:		L
13463-67-7	titanium dioxide	2,000 mg/m <sup>3</sup>
64742-48-9	Naphtha (petroleum), hydrotreated heavy (Note-p)	40,000 mg/m <sup>3</sup>
108-83-8	2,6-dimethylheptan-4-one	2000* ppm
123-86-4	n-butyl acetate	3000* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm

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112-34-5 2-(2-butoxyethoxy)ethanol

(Contd. of page 4) 200 ppm

#### 7 Handling and storage

- Handling:
  Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
  Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
  Conditions for safe storage, including any incompatibilities
  Storage:
  Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
  Information about storage in one common storage facility: Not required.
- Store in dry conditions. Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

•	Additional information about design of technical systems: No further data; see item 7.
	Control parameters Components with limit values that require monitoring at the workplace: The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.
	136-52-7 cobalt bis(2-ethylhexanoate)
	TLV Long-term value: 0.02* mg/m <sup>3</sup> as Co, *inhalable; DSEN; RSEN; BEI

136-52-7cobaltbis(2-ethylhexanoate)TLVLong-termvalue:0.02\*mg/m³

- as Co, \*inhalable; DSEN; RSEN; BEI
- Regulatory information TLV: Guide to Occupational Exposure Values (ACGIH)

· Additional information:

The lists that were valid during the creation were used as basis.

• Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

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(Contd. of page 5) · Breathing equipment: Not necessarily with good ventilation, however, use a filter AX when ventilation is inadequate! · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. For the permanent contact gloves made of the following materials are suitable: nitrile rubber; recommended glove thickness> 0.45mm. permeability / permeation time:> 480 min. according to EN 374. As protection from splashes gloves made of the following materials are suitable: chloropene; glove thickness> 0.7mm, breakthrough time> 60min. according to EN 374. nitrile rubber; glove thickness> 0.3 mm, breakthrough time> 60min.volgens EN 374. • Not suitable are gloves made of the following materials: Strong gloves Leather gloves • Eye protection: Tightly sealed goggles Body protection: Use protective suit.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

Appearance: Form:

Fluid

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## Trade name: Epifanes Mono-urethane Yacht Paint (all colors)

	(Contd. of page
Color:	According to product specification Characteristic
Odor: Odor threshold:	Not determined.
pH-value at 20 °C (68 °F):	n.v.t.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	150 °C (302 °F)
Flash point:	42 °C (107.6 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	210 °C (410 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation
	of explosive air/vapor mixtures are
	possible.
Explosion limits:	
Lower:	0.6 Vol %
Upper:	7 Vol %
Vapor pressure at 20 °C (68 °F):	1 hPa (0.8 mm Hg)
Density at 20 °C (68 °F):	1.1 g/cm <sup>3</sup> (9.1795 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/	
water):	Not determined.
•	
Viscosity:	Not determined.
Dynamic: Kinematic at 20 °C (68 °F):	
	40 s (ISO 6 mm)
Solvent separation test	n.v.t. %
Solvent content:	
Organic solvents:	25.8 %
VOC content:	25.78 %
	VOC content:
	283.6 g/l / 2.37 lb/gal
Solids content:	60.9 % (VB% 1h 150C)
Other information	No further relevant information available.

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## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- $\cdot$  Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- $\cdot$  Information on toxicological effects
- Acute toxicity:

· LD/LC50 val	ues that are re	levant for classification:	
13463-67-7	titanium dioxid	e	
Oral	LD50	>20,000 mg/kg bw (rat)	
Dermal	LD50	>10,000 mg/kg bw (rabbit)	
Inhalative	LC50/4 h	>6.82 mg/l (rat)	
64742-48-9	Naphtha (petrol	eum), hydrotreated heavy (Note-p)	
Oral	LD50	>5,000 mg/kg bw (rat)	
Dermal	LD50	>5,000 mg/kg bw (rabbit) ((24h))	
Inhalative	LC50	$>5,000 \text{ mg/m}^3$ (vapour) (rat) ((8h))	
136-52-7 co	balt bis(2-ethy	lhexanoate)	
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50 (Konijn)	5,000 mg/kg (rabbit)	
<ul> <li>Sensitizati</li> <li>Additional</li> <li>The product</li> <li>calculation</li> <li>Irritant</li> <li>Carcinogeni</li> </ul>	toxicological i shows the foll methods for pr c categories	on possible through skin contact. nformation: owing dangers according to internally approved	]
13463-67-7	titanium dioxi	de	2B
136-52-7	cobalt bis(2-e	thylhexanoate)	2B
· NTP (Nation	al Toxicology P	rogram)	
None of the	ingredients is	listed.	
· OSHA-Ca (Oc	cupational Safe	ty & Health Administration)	
None of the	ingredients is	listed.	
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12	Ecol	ogical	information

• Toxicity	
· Aquatic toxi	city:
64742-48-9 N	aphtha (petroleum), hydrotreated heavy (Note-p)
ErL (72h)	>1,000 mg/l (Pseudokirchneriella subcapitata-OECD 201)
EL50 (48h)	>1,000 mg/l ((Daphnia magna-OECD 202))
LL50 (96h)	>1,000 mg/l ((Onorhynchus mykiss OECD 203))
EbL50 (72h)	>1,000 mg/l (Pseudokirchneriella subcapitata-OECD 201)
NOELR (72h)	3 mg/l ((Pseudo. subcapitata-biomass-OECD 201))
	100 mg/l ((Pseudo. subcap. growth rate OECD 201))
136-52-7 cob	alt bis(2-ethylhexanoate)
LC50	0.1-1 mg/l (Fish Acute Toxicity Study)
EC50	0.1-1 mg/l (daphnia magna)
EC50	0.1-1 mg/l (Algae, Growth inhibition test)
<ul> <li>Persistence and degradability No further relevant information available.</li> <li>Behavior in environmental systems:</li> <li>Bioaccumulative potential Non significant accumulation in organisms</li> <li>Mobility in soil No further relevant information available.</li> <li>Ecotoxical effects:</li> <li>Remark: Harmless to algae up to the tested concentration.</li> <li>Additional ecological information:</li> <li>General notes:</li> <li>Water hazard class 2 (Self-assessment): hazardous for water</li> <li>Do not allow product to reach ground water, water course or sewage system.</li> <li>Danger to drinking water if even small quantities leak into the ground.</li> <li>Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>Other adverse effects No further relevant information available.</li> </ul>	

## 13 Disposal considerations

Waste treatment methods
Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Solvent naphtha

## 14 Transport information

· UN-Number

· DOT, IATA

UN1263

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ADR, IMDG	Void
	voia
UN proper shipping name	
DOT	CONSUMER COMMODITY, ORM-D
ADR	Paint Void
IMDG	CONSUMER COMMODITY, ORM-D
INDG	Void
IATA	PAINT
Transport hazard class(es)	
DOT VIENTE COD 1	
Class	3 Flammable liquids
Label	3
ADR, ADN, IMDG	
Class	Void
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IATA	III
ADR, IMDG	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
2	On cargo aircraft only: 220 L
Remarks:	CERCLA/DOT RQ: 617gal./4786 lbs.
ADR	
Remarks:	Packaging <450L: exemption viscous
	substances according to 2.2.3.1.5
	> 450 l: 3 F1, III
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Void

> 450 1: 3, III

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· IMDG

· Remarks:

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• UN "Model Regulation":

## 15 Regulatory information

• Safety, hea substance o	lth and environmental regulations/legislation specific for mixture	or the	
• Sara			
· Section 355 (extremely hazardous substances):			
None of the	ingredient is listed.		
· Section 313	(Specific toxic chemical listings):		
136-52-7 c	obalt bis(2-ethylhexanoate)		
78-92-2 b	utanol		
112-34-5 2	-(2-butoxyethoxy)ethanol		
· TSCA (Toxic	Substances Control Act):		
13463-67-7	titanium dioxide	ACTIVE	
64742-48-9	Naphtha (petroleum), hydrotreated heavy (Note-p)	ACTIVE	
22464-99-9	Zirconiumoctoate, 12 % Zr	ACTIVE	
68409-80-3	Isomers of fatty acid calcium salts, C6-C19	ACTIVE	
105-44-2	`4-methylpentan-2-one oxime	ACTIVE	
108-83-8	2,6-dimethylheptan-4-one	ACTIVE	
123-86-4	n-butyl acetate	ACTIVE	
108-65-6	2-methoxy-1-methylethyl acetate	ACTIVE	
136-52-7	cobalt bis(2-ethylhexanoate)	ACTIVE	
78-92-2	butanol	ACTIVE	
112-34-5	2-(2-butoxyethoxy)ethanol	ACTIVE	
· Hazardous A	ir Pollutants		
136-52-7 c	obalt bis(2-ethylhexanoate)		
· Proposition	65		
· Chemicals k	nown to cause cancer:		
13463-67-7	titanium dioxide		
· Chemicals k	nown to cause reproductive toxicity for females:		
None of the	ingredients is listed.		

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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<ul> <li>Cancerogenity catego:</li> </ul>	ries	
· EPA (Environmental P	rotection Agency)	
None of the ingredier	nts is listed.	
• TLV (Threshold Limit	Value established by ACGIH)	
13463-67-7 titanium	dioxide P	4
· MAK (German Maximum M	Workplace Concentration)	
13463-67-7 titanium	dioxide 3	3a
· NIOSH-Ca (National I	nstitute for Occupational Safety and Health)	
13463-67-7 titanium	dioxide	
<ul> <li>GHS label elements The product is class: System (GHS).</li> <li>Hazard pictograms</li> </ul>	ified and labeled according to the Globally Harmonized	
GHS02 GHS07 GHS03	8	
· Signal word Danger		
cobalt bis(2-ethylhes Hazard statements H226 Flammable liquid H317 May cause an al.	hydrotreated heavy (Note-p) xanoate) d and vapor. lergic skin reaction. ility or the unborn child.	
· Precautionary statem		
P210 Keep a smokin	away from heat/sparks/open flames/hot surfaces No ng.	
	t breathe dust/fume/gas/mist/vapors/spray.	
	nly outdoors or in a well-ventilated area.	
P280 Wear j prote	protective gloves/protective clothing/eye protection/face ction.	9
P303+P361+P353 If on cloth: P501 Dispos	allowed: Immediately call a poison center/doctor. skin (or hair): Take off immediately all contaminated ing. Rinse skin with water/shower. se of contents/container in accordance with local/regiona	al/
	nal/international regulations.	
• National regulations		
· Technical instruction		
Class Share in %		
NK 25-50		
<ul> <li>Water hazard class:</li> <li>Water hazard class 2</li> </ul>	(Self-assessment): hazardous for water. (Contd. on page	13)



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Chemical safety assessment:
 A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. · Department issuing SDS: Environment protection department. Contact: J.J. van Dijk Date of preparation / last revision 01/12/2021 / 6 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 3: Flammable liquids - Category 3 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Carc. 2: Carcinogenicity - Category 2 Repr. 1B: Reproductive toxicity - Category 1B STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 \* Data compared to the previous version altered. US