

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

1 Identification

- Product identifier
- Trade name: Epifanes Combi Filler
- Application of the substance / the mixture
See our technical datasheet for application of this product.
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
W.Heeren & Zoon bv.
P.O. box 166
1430 AD Aalsmeer
Netherlands
tel.+31 297-360666
fax.+31 297-342078
email:info@epifanes.nl
- Information department: Research & Development.
- Emergency telephone number:
Emergency Phone Number (24 hours) CHEMTREC (800-424-9300)
Outside US: 703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



GHS08 Health hazard

STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

- Label elements
- GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS07



GHS08

- Signal word Danger
- Hazard-determining components of labeling:
HYDROCARBONS C10-C13 n-alkanen, iso-alkanen, cyclische aromaten (2-25%) (Note-P)
Reaction mass of ethylbenzene and xylene
calcium bis(2-ethylhexanoate)
cobalt bis(2-ethylhexanoate)

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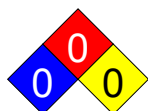
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- Hazard statements
 - H317 May cause an allergic skin reaction.
 - H336 May cause drowsiness or dizziness.
 - H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- Precautionary statements
 - P273 Avoid release to the environment.
 - P301+P310 If swallowed: Immediately call a poison center/doctor.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 0
Fire = 0
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = *0
Fire = 0
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description:
 - Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

	HYDROCARBONS C10-C13 n-alkanen, iso-alkanen, cyclische aromaten (2-25%) (Note-P)	10-25%
	Flam. Liq. 3, H226 STOT RE 1, H372; Asp. Tox. 1, H304 STOT SE 3, H336	
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide	2.5-10%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO2)	2.5-10%
	STOT RE 2, H373	

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EC number: 905-588-0	Reaction mass of ethylbenzene and xylene <div> <div>Flam. Liq. 3, H226</div> <div>STOT RE 1, H372</div> <div>STOT SE 3, H336</div> </div>	2.5-10%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol <div> <div>Flam. Liq. 2, H225</div> <div>Carc. 1A, H350</div> </div>	≤2.5%
CAS: 136-51-6 EINECS: 205-249-0	calcium bis(2-ethylhexanoate) <div> <div>Repr. 2, H361</div> <div>Eye Dam. 1, H318</div> </div>	≤1%

Additional information:

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

4 First-aid measures

- Description of first aid measures
- 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.
- 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
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Not required.
- Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

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- Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

PAC-1:

13463-67-7	titanium dioxide	30 mg/m ³
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³
64-17-5	ethanol	1,800 ppm

PAC-2:

13463-67-7	titanium dioxide	330 mg/m ³
14808-60-7	Quartz (SiO ₂)	33 mg/m ³
64-17-5	ethanol	3300* ppm

PAC-3:

13463-67-7	titanium dioxide	2,000 mg/m ³
14808-60-7	Quartz (SiO ₂)	200 mg/m ³
64-17-5	ethanol	15000* ppm

7 Handling and storage

- Handling:
- Precautions for safe handling
No special precautions are necessary if used correctly.
- Information about protection against explosions and fires:
No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- 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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

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13463-67-7 titanium dioxide

PEL Long-term value: 15* mg/m³
*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m³

14808-60-7 Quartz (SiO₂)

PEL Long-term value: 0.05* mg/m³
*resp. dust; 30mg/m³/%SiO₂+2

REL Long-term value: 0.05* mg/m³
*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³
*as respirable fraction

64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm

REL Long-term value: 1900 mg/m³, 1000 ppm

TLV Short-term value: 1880 mg/m³, 1000 ppm

13463-67-7 titanium dioxide

PEL Long-term value: 15* mg/m³
*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m³

14808-60-7 Quartz (SiO₂)

PEL Long-term value: 0.05* mg/m³
*resp. dust; 30mg/m³/%SiO₂+2

REL Long-term value: 0.05* mg/m³
*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³
*as respirable fraction

64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm

REL Long-term value: 1900 mg/m³, 1000 ppm

TLV Short-term value: 1880 mg/m³, 1000 ppm

Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

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.

Store protective clothing separately.

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- Breathing equipment: Not required.
- 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:

Form:	Solid
Color:	According to product specification
- Odor: Characteristic
- Odor threshold: Not determined.
- pH-value: Not applicable.
- Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- Flash point: Not applicable.
- Flammability (solid, gaseous): Not determined.
- Ignition temperature: 240 °C (464 °F)
- Decomposition temperature: Not determined.

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· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· 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):	1.79 g/cm ³ (14.93755 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic at 40 °C (104 °F):	>20.5 mm ² /s
· Solvent content:	
Organic solvents:	7.0 %
VOC content:	6.99 %
	VOC content:
Solids content:	100.0 %
· 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.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification:

13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg bw (rat)
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Dermal	LD50	>10,000 mg/kg bw (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)
64-17-5 ethanol		
Oral	LD50	7,060 mg/kg bw (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- Carcinogenic categories

• IARC (International Agency for Research on Cancer)		
13463-67-7	titanium dioxide	2B
14808-60-7	Quartz (SiO ₂)	1
64-17-5	ethanol	1
136-52-7	cobalt bis(2-ethylhexanoate)	2B

- NTP (National Toxicology Program)

14808-60-7	Quartz (SiO ₂)	K
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- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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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.

14 Transport information

- | | |
|------------------------------|---|
| · UN-Number | UN1263 |
| · DOT, ADR, IMDG, IATA | |
| · UN proper shipping name | CONSUMER COMMODITY, ORM-D |
| · DOT | Paint |
| · ADR | 1263 PAINT |
| · IMDG | CONSUMER COMMODITY, ORM-D |
| | PAINT |
| · IATA | PAINT |
| · Transport hazard class(es) | |
| · DOT | |
| |  |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · ADR | |
| |  |
| · Class | 3 (F1) Flammable liquids |
| · Label | 3 |
| · IMDG, IATA | |
| |  |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | III |

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· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· Remarks:	CERCLA/DOT RQ: 617gal./4786 lbs.
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 1263 PAINT, 3, III

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15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

136-52-7 cobalt bis(2-ethylhexanoate)

· TSCA (Toxic Substances Control Act):

13463-67-7	titanium dioxide	ACTIVE
14808-60-7	Quartz (SiO ₂)	ACTIVE
64-17-5	ethanol	ACTIVE
136-51-6	calcium bis(2-ethylhexanoate)	ACTIVE

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136-52-7	cobalt bis(2-ethylhexanoate)	ACTIVE
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· Hazardous Air Pollutants

136-52-7	cobalt bis(2-ethylhexanoate)
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· Proposition 65

· Chemicals known to cause cancer:

13463-67-7	titanium dioxide
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14808-60-7	Quartz (SiO ₂)
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· Chemicals known 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:

64-17-5	ethanol
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· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

13463-67-7	titanium dioxide	A4
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14808-60-7	Quartz (SiO ₂)	A2
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64-17-5	ethanol	A3
---------	---------	----

· MAK (German Maximum Workplace Concentration)

13463-67-7	titanium dioxide	3A
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14808-60-7	Quartz (SiO ₂)	1
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64-17-5	ethanol	5
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· NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7	titanium dioxide
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14808-60-7	Quartz (SiO ₂)
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· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

HYDROCARBONS C10-C13 n-alkanen, iso-alkanen, cyclische aromaten (2-25%) (Note-P)

Reaction mass of ethylbenzene and xylene

calcium bis(2-ethylhexanoate)

cobalt bis(2-ethylhexanoate)

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- Hazard statements
 - H317 May cause an allergic skin reaction.
 - H336 May cause drowsiness or dizziness.
 - H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- Precautionary statements
 - P273 Avoid release to the environment.
 - P301+P310 If swallowed: Immediately call a poison center/doctor.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- National regulations:
- Technical instructions (air):

Class	Share in %
NK	2.5-10
- Water hazard class:
 - Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 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 / 4
- 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. 2: Flammable liquids - Category 2
 - Flam. Liq. 3: Flammable liquids - Category 3

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Eye Dam. 1: Serious eye damage/eye irritation - Category 1
Skin Sens. 1: Skin sensitisation - Category 1
Carc. 1A: Carcinogenicity - Category 1A
Repr. 2: Reproductive toxicity - Category 2
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2
Asp. Tox. 1: Aspiration hazard - Category 1
· * Data compared to the previous version altered.

US