

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

**1 Identification**

- Product identifier
- Trade name: Epifanes Multi Marine Primer
- 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



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS07

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



GHS02



GHS07

- Signal word Warning
- Hazard-determining components of labeling:  
Naphtha (petroleum), hydrotreated heavy (Note-p)  
Solvent naphtha (petroleum), light arom. (Note-P)
- Hazard statements  
H226 Flammable liquid and vapor.  
H336 May cause drowsiness or dizziness.

(Contd. on page 2)

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 1)

- 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 = 0  
Fire = 2  
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 0  
Fire = 2  
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:

|   |  |         |
|---|--|---------|
| CAS: 64742-48-9<br>EC number: 919-857-5<br>Index number: 649-327-00-6 | Naphtha (petroleum), hydrotreated heavy (Note-p)<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336   | 10-25%  |
| CAS: 13463-67-7<br>EINECS: 236-675-5<br>Index number: 022-006-00-2    | titanium dioxide<br>Carc. 2, H351  | 10-25%  |
| CAS: 1330-20-7<br>EINECS: 215-535-7                                   | Xylene<br>Flam. Liq. 3, H226<br>STOT RE 2, H373; Asp. Tox. 1, H304<br>Acute Tox. 4, H312; Acute Tox. 4, H332;<br>Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 | 2.5-10% |

(Contd. on page 3)

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 2)

|  |   |         |
|--|---|---------|
| CAS: 64742-95-6<br>EINECS: 265-199-0<br>Index number: 649-356-00-4 | Solvent naphtha (petroleum), light arom.<br>(Note-P)<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H335-H336 | 2.5-10% |
|--|---|---------|

- Additional information:  
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; consult doctor in case of complaints.
- After skin contact: 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  
No further relevant information available.

**5 Fire-fighting measures**

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

**6 Accidental release measures**

- Personal precautions, protective equipment and emergency procedures  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:  
Prevent seepage into sewage system, workpits and cellars.  
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- Reference to other sections  
See Section 7 for information on safe handling.

(Contd. on page 4)

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 3)

See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:

|            |  |                         |
|------------|--|-------------------------|
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy (Note-p) | 350 mg/m <sup>3</sup>   |
| 13463-67-7 | titanium dioxide                                 | 30 mg/m <sup>3</sup>    |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol                        | 30 ppm                  |
| 14808-60-7 | Quartz (SiO <sub>2</sub> )                       | 0.075 mg/m <sup>3</sup> |

· PAC-2:

|            |  |                         |
|------------|--|-------------------------|
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy (Note-p) | 1,800 mg/m <sup>3</sup> |
| 13463-67-7 | titanium dioxide                                 | 330 mg/m <sup>3</sup>   |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol                        | 33 ppm                  |
| 14808-60-7 | Quartz (SiO <sub>2</sub> )                       | 33 mg/m <sup>3</sup>    |

· PAC-3:

|            |  |                          |
|------------|--|--------------------------|
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy (Note-p) | 40,000 mg/m <sup>3</sup> |
| 13463-67-7 | titanium dioxide                                 | 2,000 mg/m <sup>3</sup>  |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol                        | 200 ppm                  |
| 14808-60-7 | Quartz (SiO <sub>2</sub> )                       | 200 mg/m <sup>3</sup>    |

**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: No special requirements.  
Information about storage in one common storage facility: Not required.  
Further information about storage 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.

(Contd. on page 5)

Safety Data Sheet  
 acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 4)

1330-20-7 Xylene

|     |  |
|-----|--|
| PEL | Long-term value: 435 mg/m <sup>3</sup> , 100 ppm   |
| REL | Short-term value: 655 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 435 mg/m <sup>3</sup> , 100 ppm        |
| TLV | Short-term value: 651 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 434 mg/m <sup>3</sup> , 100 ppm<br>BEI |

1330-20-7 Xylene

|     |  |
|-----|--|
| PEL | Long-term value: 435 mg/m <sup>3</sup> , 100 ppm   |
| REL | Short-term value: 655 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 435 mg/m <sup>3</sup> , 100 ppm        |
| TLV | Short-term value: 651 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 434 mg/m <sup>3</sup> , 100 ppm<br>BEI |

- 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:  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.
- Breathing equipment:  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.  
 Filter AX
- 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.

(Contd. on page 6)

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 5)

- 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:  
chloroprene; glove thickness> 0.7mm, breakthrough time> 60min. according to EN 374.  
nitrile rubber; glove thickness> 0.3 mm, breakthrough time> 60min.volgens EN 374.
- Eye protection:



Tightly sealed goggles

**9 Physical and chemical properties**

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

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

|                              |                 |
|------------------------------|-----------------|
| Melting point/Melting range: | Undetermined.   |
| Boiling point/Boiling range: | 100 °C (212 °F) |
- Flash point: 40 °C (104 °F)
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature: 500 °C (932 °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: | 1.1 Vol % |
| Upper: | 7 Vol %   |
- Vapor pressure at 20 °C (68 °F): 6.7 hPa (5 mm Hg)

(Contd. on page 7)

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 6)

|  |  |
|--|--|
| · Density at 20 °C (68 °F):                | 1.35 g/cm <sup>3</sup> (11.26575 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:                               |  |
| Dynamic:                                   | Not determined.                            |
| Kinematic at 20 °C (68 °F):                | 35 s (ISO 6 mm)                            |
| · Solvent content:                         |  |
| Organic solvents:                          | 33.4 %                                     |
| VOC content:                               | 33.42 %                                    |
|  | VOC content:<br>451.2 g/l / 3.77 lb/gal    |
| Solids content:                            | 63.0 %                                     |
| · Other information                        | No further relevant information available. |

**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.

**11 Toxicological information**

- Information on toxicological effects
- Acute toxicity:

|   |          |  |
|---|----------|--|
| · LD/LC50 values that are relevant for classification:      |          |  |
| 64742-48-9 Naphtha (petroleum), 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 mg/m <sup>3</sup> (vapour) (rat) ((8h)) |
| 13463-67-7 titanium dioxide                                 |          |  |
| 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)                               |

(Contd. on page 8)

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 7)

64742-95-6 Solvent naphtha (petroleum), light arom. (Note-P)

|            |               |                                |
|------------|---------------|--------------------------------|
| Oral       | LD50          | 3,592 mg/kg (rat)              |
| Dermal     | LD50 (Konijn) | 3,160 mg/kg (rabbit)           |
| Inhalative | LC50 (rat)    | >6,193 mg/m <sup>3</sup> (rat) |

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

|            |   |    |
|------------|---|----|
| 13463-67-7 | titanium dioxide  | 2B |
| 14807-96-6 | Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) | 3  |
| 136-52-7   | cobalt bis(2-ethylhexanoate)  | 2B |
| 14808-60-7 | Quartz (SiO <sub>2</sub> )  | 1  |

- NTP (National Toxicology Program)

|            |                            |   |
|------------|----------------------------|---|
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) | K |
|------------|----------------------------|---|

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

**12 Ecological information**

- Toxicity

- Aquatic toxicity:

64742-48-9 Naphtha (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))      |

- 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.

(Contd. on page 9)



Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 8)

· Other adverse effects No further relevant information available.

**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
  - DOT, ADR, IMDG, IATA
  - UN proper shipping name
  - DOT
  - ADR
  - IMDG
  - IATA
- UN1263  
CONSUMER COMMODITY, ORM-D  
Paint  
1263 PAINT  
CONSUMER COMMODITY, ORM-D  
PAINT  
PAINT

· Transport hazard class(es)

· DOT



- Class
  - Label
- 3 Flammable liquids  
3

· ADR



- Class
  - Label
- 3 (F1) Flammable liquids  
3

· IMDG, IATA



- Class
  - Label
- 3 Flammable liquids  
3

(Contd. on page 10)

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 9)

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· Packing group</li> <li>· DOT, ADR, IMDG, IATA</li> </ul>  | <p>III</p>  |
| <ul style="list-style-type: none"> <li>· Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>  | <p>No</p>   |
| <ul style="list-style-type: none"> <li>· Special precautions for user</li> <li>· Hazard identification number (Kemler code):</li> <li>· EMS Number:</li> <li>· Stowage Category</li> </ul> | <p>Warning: Flammable liquids</p> <p>30</p> <p>F-E, S-E</p> <p>A</p>  |
| <ul style="list-style-type: none"> <li>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>  | <p>Not applicable.</p>  |
| <ul style="list-style-type: none"> <li>· Transport/Additional information:</li> <li>· DOT</li> <li>· Quantity limitations</li> <li>· Remarks:</li> </ul>                                   | <p>On passenger aircraft/rail: 60 L</p> <p>On cargo aircraft only: 220 L</p> <p>CERCLA/DOT RQ: 617gal./4786 lbs.</p>                      |
| <ul style="list-style-type: none"> <li>· ADR</li> <li>· Excepted quantities (EQ)</li> </ul>  | <p>Code: E1</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 1000 ml</p>           |
| <ul style="list-style-type: none"> <li>· IMDG</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>  | <p>5L</p> <p>Code: E1</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 1000 ml</p> |
| <ul style="list-style-type: none"> <li>· UN "Model Regulation":</li> </ul>   | <p>UN 1263 PAINT, 3, III</p>  |

**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):

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

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

· TSCA (Toxic Substances Control Act):

64742-48-9 | Naphtha (petroleum), hydrotreated heavy (Note-p)

ACTIVE

(Contd. on page 11)

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 10)

|            |  |        |
|------------|--|--------|
| 13463-67-7 | titanium dioxide   | ACTIVE |
| 7757-93-9  | calcium hydrogenorthophosphate, with afluorine content of less than 0,005 per centby weight on the dry anhydrous product | ACTIVE |
| 1330-20-7  | Xylene   | ACTIVE |
| 14807-96-6 | Talc (Mg3H2(SiO3)4)  | ACTIVE |
| 16389-88-1 | dolomite   | ACTIVE |
| 64742-95-6 | Solvent naphtha (petroleum), light arom. (Note-P)  | ACTIVE |
| 68409-80-3 | Isomers of fatty acid calcium salts, C6-C19  | ACTIVE |
| 68953-58-2 | Ditallowdimethylammonium   | ACTIVE |
| 105-44-2   | 4-methylpentan-2-one oxime   | ACTIVE |
| 22464-99-9 | Zirconiumoctoate, 12 % Zr  | ACTIVE |
| 112-34-5   | 2-(2-butoxyethoxy)ethanol  | ACTIVE |
| 136-52-7   | cobalt bis(2-ethylhexanoate)   | ACTIVE |
| 14808-60-7 | Quartz (SiO2)  | ACTIVE |

· Hazardous Air Pollutants

|           |                              |
|-----------|------------------------------|
| 1330-20-7 | Xylene                       |
| 136-52-7  | cobalt bis(2-ethylhexanoate) |

· Proposition 65

· Chemicals known to cause cancer:

|            |                  |
|------------|------------------|
| 13463-67-7 | titanium dioxide |
| 14808-60-7 | Quartz (SiO2)    |

· 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:

None of the ingredients is listed.

· 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 |
| 14807-96-6 | Talc (Mg3H2(SiO3)4) | A4 |
| 14808-60-7 | Quartz (SiO2)       | A2 |

· MAK (German Maximum Workplace Concentration)

|            |                     |    |
|------------|---------------------|----|
| 13463-67-7 | titanium dioxide    | 3A |
| 14807-96-6 | Talc (Mg3H2(SiO3)4) | 3B |
| 14808-60-7 | Quartz (SiO2)       | 1  |

· NIOSH-Ca (National Institute for Occupational Safety and Health)

|            |                  |
|------------|------------------|
| 13463-67-7 | titanium dioxide |
|------------|------------------|

(Contd. on page 12)

Safety Data Sheet  
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Multi Marine Primer

(Contd. of page 11)

14808-60-7 Quartz (SiO<sub>2</sub>)

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



GHS02



GHS07

- Signal word Warning
- Hazard-determining components of labeling:  
Naphtha (petroleum), hydrotreated heavy (Note-p)  
Solvent naphtha (petroleum), light arom. (Note-P)
- Hazard statements  
H226 Flammable liquid and vapor.  
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.

- National regulations:
- Technical instructions (air):

| Class | Share in % |
|-------|------------|
| NK    | 25-50      |

- 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 / 6

(Contd. on page 13)

Safety Data Sheet  
acc. to OSHA HCS

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Trade name: Epifanes Multi Marine Primer

(Contd. of page 12)

· **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  
Acute Tox. 4: Acute toxicity - Category 4  
Skin Irrit. 2: Skin corrosion/irritation - Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A  
Carc. 2: Carcinogenicity - Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3  
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.