

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 27.02.2017

Version number 12

Revision: 27.02.2017

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

- 1.1 Product identifier
 - Trade name: Epifanes Brushthinner for Paint & Varnish
 - CAS Number: 64742-48-9
 - EC number: 265-150-3
 - Index number: 649-327-00-6
 - Registration number 01-2119463258-33
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - Product category
 - PC35 Washing and cleaning products (including solvent based products)
 - PC0 Other
 - PC9a Coatings and paints, thinners, paint removers
 - Process category PROC10 Roller application or brushing
 - Environmental release category ERC2 Formulation into mixture
 - Application of the substance / the mixture
 - See our technical datasheet for application of this product.
 - thinner for brush and roller application of one-component paints and varnishes
- 1.3 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-(0)297-360366
 - fax +31-(0)297-342078
 - email: r&d@epifanes.nl
 - Further information obtainable from: Research & Development.
- 1.4 Emergency telephone number:
 - W.Heeren & Zoon bv. tel: +31 297 360678, E-mail: rend@epifanes.nl
 - Office hours: weekdays from 08:00 to 17:00.
 - The National Poisons Information Service; dial 111
 - Solely intended to inform professionals in acute poisoning!
 - See manufacturer

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

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STOT SE 3 H336 May cause drowsiness or dizziness.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS02



GHS07



GHS08

- Signal word Danger
- Hazard-determining components of labelling:
Naphtha (petroleum), hydrotreated heavy
- Hazard statements
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
- Precautionary statements
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/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.
- Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Chemical characterisation: Substances
- CAS No. Description
Note - P
64742-48-9 Naphtha (petroleum), hydrotreated heavy
- Identification number(s)
- EC number: 265-150-3
- Index number: 649-327-00-6
- Additional information:
Note P: The substance does not have to be classified as a carcinogen or mutagen as can be shown that the substance contains less than 0.1% (w / w) benzene (EINECS No 200-753-7.). This note applies only to certain complex oil-derived substances in Part 3.
- Description: Mixture of organic solvents

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SECTION 4: First aid measures

- 4.1 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.
- 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
- 6.3 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.
- 6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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Keep respiratory protective device available.

- 7.2 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.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities:
No further data; see item 7.
- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
Not required.

Not required.

- DNELs

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Dermal	Long-term - systemic effects, worker	300 mg/kg bw/day (Werker/Worker)
Inhalative	Long-term - systemic effects, worker	1500 mg/m ³ (Werker/Worker)

- Additional information: The lists valid during the making were used as basis.
- 8.2 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.
- Respiratory protection:
Suitable respiratory protective device recommended.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
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.
- 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.

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- 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:
Cloropene; handglove thickness >0.7mm, penetration time >60min. according
EN374.
Nitrilrubber; handglove thickness >0.3mm, penetration time >60min. according
EN374.
- Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

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

Form:	Fluid
Colour:	Clear
- Odour: Characteristic
- Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
- Flash point: >36 °C (NFEN ISO2719)
- Flammability (solid, gas): Not applicable.
- Ignition temperature:

Decomposition temperature:	Not determined.
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- Auto-ignition temperature: Not determined.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Explosion limits:

Lower:	Not determined.
Upper:	Not determined.
- Vapour pressure: Not determined.
- Density at 20 °C: 0.77 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.

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- | | |
|---|--|
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · Partition coefficient: n-octanol/water: | Not determined. |
| · Viscosity:
Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 100.0 % |
| VOC content: | 100.0 % |
| | VOC content:
770.0 g/l / 6.43 lb/gl |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
Partial burning or pyrolysis develops soot and gases CO, CO₂, different hydrocarbons, aldehydes etc. Which could be toxic.
Breathing in could be dangerous.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity
Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg bw (rat)
Dermal	LD50	>5000 mg/kg bw (rabbit) ((24h))
Inhalative	LC50	>5000 mg/m ³ (vapour) (rat) ((8h))

- Primary irritant effect:
- Skin corrosion/irritation
Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity
Based on available data, the classification criteria are not met.
- Carcinogenicity
Based on available data, the classification criteria are not met.

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- Reproductive toxicity
Based on available data, the classification criteria are not met.
- STOT-single exposure
May cause drowsiness or dizziness.
- STOT-repeated exposure
Based on available data, the classification criteria are not met.
- Aspiration hazard
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

ErL (72h)	>1000 mg/l (Pseudokirchneriella subcapitata-OECD 201)
EL50 (48h)	>1000 mg/l ((Daphnia magna-OECD 202))
LL50 (96h)	>1000 mg/l ((Onorhynchus mykiss OECD 203))
EbL50 (72h)	>1000 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))

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes: Generally not hazardous for water
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

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 varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

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SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA 	<p style="text-align: right;">UN1263</p>
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA 	<p style="text-align: right;">1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL</p>
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR 	
	
<ul style="list-style-type: none"> · Class · Label 	<p style="text-align: right;">3 (FIII) Flammable liquids. 3</p>
<ul style="list-style-type: none"> · IMDG 	
	
<ul style="list-style-type: none"> · Class · Label 	<p style="text-align: right;">3 Flammable liquids. 3</p>
<ul style="list-style-type: none"> · IATA 	
	
<ul style="list-style-type: none"> · Label 	<p style="text-align: right;">3</p>
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	<p style="text-align: right;">III</p>
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	<p style="text-align: right;">No</p>
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category 	<p style="text-align: right;">Warning: Flammable liquids. 36 F-E, S-E A</p>
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	<p style="text-align: right;">Not applicable.</p>
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR · Limited quantities (LQ) · Excepted quantities (EQ) 	<p style="text-align: right;">5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</p>
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p style="text-align: right;">5L Code: E1 Maximum net quantity per inner packaging:</p>

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·	30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I Substance is not listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- Technical instructions (air):

Class	Share in %
NK	50-100

- Waterhazard class: Generally not hazardous for water.
- 15.2 Chemical safety assessment:
A Chemical Safety Assessment has been carried out.

SECTION 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.

- 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)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids - Category 3
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.

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Annex: Exposure scenario

- Short title of the exposure scenario
- Product category
PC35 Washing and cleaning products (including solvent based products)
PC0 Other
PC9a Coatings and paints, thinners, paint removers
- Process category PROC10 Roller application or brushing
- Environmental release category ERC2 Formulation into mixture
- Description of the activities / processes covered in the Exposure Scenario
See section 1 of the annex to the Safety Data Sheet.
- Conditions of use
- Duration and frequency 5 workdays/week.
- Physical parameters
- Physical state Fluid
- Concentration of the substance in the mixture Raw material.
- Other operational conditions
- Other operational conditions affecting environmental exposure
No special measures required.
- Other operational conditions affecting worker exposure
Take precautionary measures against static discharge.
Keep away from sources of ignition - No smoking.
- Other operational conditions affecting consumer exposure
Keep out of the reach of children.
- Other operational conditions affecting consumer exposure during the use of the product
Not applicable.
- Risk management measures
- Worker protection
- Organisational protective measures No special measures required.
- Technical protective measures
Ensure that suitable extractors are available on processing machines
Provide explosion-proof electrical equipment.
- Personal protective measures
Do not inhale gases / fumes / aerosols.
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
- Measures for consumer protection
Ensure adequate labelling.
Keep locked up and out of the reach of children.
- Environmental protection measures
- Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- Disposal procedures
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- Consumer Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.