

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

Printing date 24.02.2017

Version number 24

Revision: 24.02.2017

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

- 1.1 Product identifier
- Trade name: Epifanes Clear Varnish
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category PROC10 Roller application or brushing
- Environmental release category
- ERC2 Formulation into mixture
- ERC10a Widespread use of articles with low release (outdoor)
- Application of the substance / the mixture
- See our technical datasheet for application of this product.
clear varnish
- 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!

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.
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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



GHS02

- Signal word Warning
- Hazard statements
- H226 Flammable liquid and vapour.
- H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
- P102 Keep out of reach of children.

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- 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.

Contains cobaltbis(2-ethylhexanoat), 2-butanone oxime. May cause an allergic reaction.

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

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 64742-48-9 EINECS: 265-150-3 Index number: 649-327-00-6 Reg.nr.: 01-2119463258-33	Naphtha (petroleum), hydrotreated heavy Flam. Liq. 3, H226 Asp. Tox. 1, H304	25-50%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≤ 2.5%
CAS: 80-46-6 EINECS: 201-280-9 Reg.nr.: 01-2119971070-46	p-(1,1-dimethylpropyl)phenol Acute Tox. 4, H302	≤1%
CAS: 98-54-4 EINECS: 202-679-0 Index number: 604-090-00-8 Reg.nr.: 01-2119489419-21	4-tert-butylphenol Repr. 2, H361f Eye Dam. 1, H318 Skin Irrit. 2, H315	≤1%
CAS: 96-29-7 EINECS: 202-496-6 Index number: 616-014-00-0 Reg.nr.: 01-2119539477-28	2-butanone oxime Carc. 2, H351 Eye Dam. 1, H318 Acute Tox. 4, H312; Skin Sens. 1, H317	≤0.5%
CAS: 140-66-9 EINECS: 205-426-2 Index number: 604-075-00-6 Reg.nr.: 01-2119541687-29	4-(1,1,3,3-tetramethylbutyl)phenol Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315	≤0.5%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29	cobalt bis(2-ethylhexanoate) Repr. 2, H361 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	<0.3%

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· SVHC

80-46-6 p-(1,1-dimethylpropyl)phenol

140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol

· 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.

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

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: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- 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.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
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.
Keep respiratory protective device available.
- 7.2 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 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:

1330-20-7 xylene

Inhalative	(Tgg)time weighted average 8 hours / Exposure time	210 mg/m ³ (Algemene bevolking/ General population)
	(Tgg)time weighted average 15 min. / Exposure time	442 mg/m ³ (Algemene bevolking/ General population)

1330-20-7 xylene

WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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136-52-7 cobalt bis(2-ethylhexanoate)

WEL	Long-term value: 0.1 mg/m ³ as Co; Carc, Sen
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- 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)

1330-20-7 xylene

Dermal	Long-term - local effects, worker	180 --- (Werker/Worker)
Inhalative	Acute-local effects, worker	289 mg/m ³ (Werker/Worker)
	Acute - systemic effects, worker	289 mg/m ³ (Werker/Worker)
	Long-term - local effects, worker	77 mg/m ³ (Werker/Worker)

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96-29-7 2-butanone oxime

Inhalative	Acute - systemic effects, worker	320-1000 mg/m ³ (Fish Acute Toxicity Study)
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· PNECs

1330-20-7 xylene

Aquatic compartment - freshwater	0.327 mg/L (not specified)
Aquatic compartment - marine water	0.327 mg/L (not specified)
Aquatic compartment - water, intermittent releases	0.327 mg/L (not specified)
Aquatic compartment - sediment in freshwater	12.46 mg/kg sed dw (not specified)
Aquatic compartment - sediment in marine water	12.46 mg/kg sed dw (not specified)
Terrestrial compartment - soil	2.31 mg/kg dw (not specified)
Sewage treatment plant	6.58 mg/L (not specified)

· Ingredients with biological limit values:

1330-20-7 xylene

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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- Additional information: The lists valid during the making were used as basis.
- 8.2 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.
- Respiratory protection:
Not necessarily with good ventilation, however, use a filter AX when ventilation is inadequate!
- Protection of hands:
Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.



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.

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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:	According to product specification
- Odour: Characteristic
- Odour threshold: Not determined.
- pH-value at 20 °C: 7
- Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	150 °C
- Flash point: 36 °C
- Flammability (solid, gas): Not applicable.
- Ignition temperature: 205 °C
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Product is not selfigniting.
- 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: 0.91311 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 at 20 °C: | 50 s (ISO 4 mm) |
| · Solvent content: | |
| Organic solvents: | 43.5 % |
| VOC content: | 43.5 % |
| | VOC content:
397.7 g/l / 3.32 lb/gl |
| Solids content: | 57.4 % |
| · 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:
No dangerous decomposition products known.

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))

1330-20-7 xylene

Oral	LD50	4300 mg/kg bw (rat)
Dermal	LD50	2000 mg/kg bw (rabbit)

98-54-4 4-tert-butylphenol

Oral	LD50	2951 mg/kg bw (rat)
Dermal	LD50	2288 mg/kg bw (rabbit)

96-29-7 2-butanone oxime

Oral	LD50	3700 mg/kg bw (rat)
Dermal	LD50	200-2000 mg/kg bw (rat)
Inhalative	LC50/4 h	20 mg/l (rat)

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140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol		
Oral	LD50	3210 mg/kg bw (mouse)
136-52-7 cobalt bis(2-ethylhexanoate)		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50 (Konijn)	5000 mg/kg (rabbit)

- 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 (carcinogenity, 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.
- Reproductive toxicity
Based on available data, the classification criteria are not met.
- STOT-single exposure
Based on available data, the classification criteria are not met.
- STOT-repeated exposure
Based on available data, the classification criteria are not met.
- Aspiration hazard
Based on available data, the classification criteria are not met.

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))
1330-20-7 xylene	
EC50	1 mg/l (daphnia magna) (48 uur/hour)
LC50	13.5-2.6 mg/l (Fish Acute Toxicity Study) (96 uur/hour)
96-29-7 2-butanone oxime	
LC50 (96 hours)	320-1000 mg/l (fish 1) (LEUCISCUS IDUS; STATISCH SYSTEM) 48 mg/l (fish 2) (LEPOSMIS MACEOCHIRUS; STATISCH SYSTEM)
LC50 (48 hours)	750 mg/l (other waterspecies 1)
EC50 (48 hours)	500 mg/l (daphnia magna) 750 mg/l (Daphnia similis Acute Toxicity Study) (DAPHNIA MAGNA)
EC50 (72 hours)	83 mg/l (other waterspecies 2) (SCENEDESMUS SUBSPICATUS)
EC50	630 mg/l (other waterspecies 1) (BACTERIA; TOXICITEITSTEST)

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136-52-7 cobalt 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)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential

1330-20-7 xylene

Log Kow 3 (not specified)

- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Harmful to fish
- Additional ecological information:
- General notes:
Water hazard class 1 (German Regulation) (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.
Harmful to aquatic organisms
- 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.

SECTION 14: Transport information

- 14.1 UN-Number
- ADR, IMDG, IATA UN1263
- 14.2 UN proper shipping name
- ADR 1263 PAINT
- IMDG, IATA PAINT

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· 14.3 Transport hazard class(es)

· ADR



· Class 3 Flammable liquids.

· IMDG, IATA



· Class 3 Flammable liquids.

· Label 3

· 14.4 Packing group

· ADR, IMDG, IATA III

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

Warning: Flammable liquids.

· EMS Number: F-E, S-E

· Stowage Category A

· 14.7 Transport in bulk according to

Annex II of Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging:
30 ml

Maximum net quantity per outer packaging:
1000 ml

· Tunnel restriction code

D/E

· Remarks:

Packaging <450L: exemption viscous
substances according to 2.2.3.1.5

· IMDG

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging:
30 ml

Maximum net quantity per outer packaging:
1000 ml

· Remarks:

≤ 30 l: -

· UN "Model Regulation":

UN 1263 PAINT, 3, III

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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 None of the ingredients is 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 %
I	≤0.5
NK	25-50

- Waterhazard class:
Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Other regulations, limitations and prohibitive regulations

- Substances of very high concern (SVHC) according to REACH, Article 57

80-46-6	p-(1,1-dimethylpropyl)phenol
140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol

- 15.2 Chemical safety assessment:
A Chemical Safety Assessment has not 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.

- Relevant phrases

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H361f Suspected of damaging fertility.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

- 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 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

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 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)
 VOC: Volatile Organic Compounds (USA, EU)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 3: Flammable liquids - Category 3
 Acute Tox. 4: Acute toxicity - Category 4
 Skin Irrit. 2: Skin corrosion/irritation - Category 2
 Eye Dam. 1: Serious eye damage/eye irritation - Category 1
 Skin Sens. 1: Skin sensitisation - Category 1
 Carc. 2: Carcinogenicity - Category 2
 Repr. 2: Reproductive toxicity - Category 2
 Repr. 2: Reproductive toxicity - Category 2
 Asp. Tox. 1: Aspiration hazard - Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3
 * Data compared to the previous version altered.

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