

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/18/2021

Reviewed on 05/18/2021

1 Identification

- Product identifier
- Trade name: Epifanes Clear Gloss Varnish
- 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.



GHS08 Health hazard

Repr. 1B H360 May damage fertility or the unborn child.



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



GHS02



GHS07



GHS08

- Signal word Danger

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Trade name: Epifanes Clear Gloss Varnish

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- 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 = 0
Fire = 3
Reactivity = 0
- HMIS-ratings (scale 0 - 4)


HEALTH 0 Health = 0
FIRE 3 Fire = 3
REACTIVITY 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:

CAS: 64742-48-9 EC number: 919-857-5 Index number: 649-327-00-6	Naphtha (petroleum), hydrotreated heavy (Note-p) ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ STOT SE 3, H336	25-50%
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CAS: 34590-94-8 EINECS: 252-104-2	Dipropylene glycol monomethyl ether Flam. Liq. 4, H227	≤2.5%
CAS: 22464-99-9 EINECS: 245-018-1	Zirconium 2-ethylhexanoate ⚠ Repr. 2, H361	≤0.5%
CAS: 136-52-7 EINECS: 205-250-6	cobalt bis(2-ethylhexanoate) ⚠ Carc. 2, H351; Repr. 1B, H360 ⚠ Eye Irrit. 2A, H319; Skin Sens. 1A, H317	<0.3%
CAS: 98-54-4 EINECS: 202-679-0 Index number: 604-090-00-8	4-tert-butylphenol ⚠ Repr. 2, H361 ⚠ Eye Dam. 1, H318 ⚠ Skin Irrit. 2, H315	<0.3%
CAS: 140-66-9 EINECS: 205-426-2 Index number: 604-075-00-6	4-(1,1,3,3-tetramethylbutyl)phenol ⚠ Eye Dam. 1, H318 ⚠ Skin Irrit. 2, H315	<0.3%

- 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 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
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.

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- 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.
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 ³
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
108-83-8	2,6-dimethylheptan-4-one	75 ppm
98-54-4	4-tert-butylphenol	1.5 mg/m ³
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm

· PAC-2:

64742-48-9	Naphtha (petroleum), hydrotreated heavy (Note-p)	1,800 mg/m ³
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
108-83-8	2,6-dimethylheptan-4-one	330 ppm
98-54-4	4-tert-butylphenol	40 mg/m ³
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm

· PAC-3:

64742-48-9	Naphtha (petroleum), hydrotreated heavy (Note-p)	40,000 mg/m ³
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
108-83-8	2,6-dimethylheptan-4-one	2000* ppm
98-54-4	4-tert-butylphenol	240 mg/m ³
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm

7 Handling and storage

- Handling:
- Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

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- 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 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.

34590-94-8 Dipropylene glycol monomethyl ether

PEL	Long-term value: 600 mg/m ³ , 100 ppm Skin	
REL	Short-term value: 900 mg/m ³ , 150 ppm Long-term value: 600 mg/m ³ , 100 ppm Skin	
TLV	Short-term value: NIC-606 (909) mg/m ³ , NIC-100 (150) ppm Long-term value: NIC-303 (606) mg/m ³ , NIC-50 (100) ppm (Skin)	

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

TLV	Long-term value: 0.02* mg/m ³ as Co, *inhalable; DSEN; RSEN; BEI	
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34590-94-8 Dipropylene glycol monomethyl ether

PEL	Long-term value: 600 mg/m ³ , 100 ppm Skin	
REL	Short-term value: 900 mg/m ³ , 150 ppm Long-term value: 600 mg/m ³ , 100 ppm Skin	
TLV	Short-term value: NIC-606 (909) mg/m ³ , NIC-100 (150) ppm Long-term value: NIC-303 (606) mg/m ³ , NIC-50 (100) ppm (Skin)	

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

TLV	Long-term value: 0.02* mg/m ³ as Co, *inhalable; DSEN; RSEN; BEI	
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- Regulatory information
PEL: Guide to Occupational Exposure Values (OSHA PELs)
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (TLV)

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- **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.
- **Breathing equipment:**
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.
- **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.

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· 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 at 20 °C (68 °F): 7

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 150 °C (302 °F)

· Flash point: 36 °C (96.8 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 205 °C (401 °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: Not determined.
Upper: Not determined.

· Vapor pressure: Not determined.

· Density at 20 °C (68 °F): 0.91311 g/cm³ (7.6199 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): 50 s (ISO 4 mm)

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- Solvent content:
 - Organic solvents: 42.3 %
 - VOC content: 42.26 %
 - VOC content: 385.8 g/l / 3.22 lb/gal
- Solids content: 57.4 %
- 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 ³ (vapour) (rat) ((8h))
34590-94-8 Dipropylene glycol monomethyl ether		
Oral	LD50	5,135 mg/kg bw (rat)
Dermal	LD50	>19,000 mg/kg bw (rab)
136-52-7 cobalt bis(2-ethylhexanoate)		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50 (Konijn)	5,000 mg/kg (rabbit)
98-54-4 4-tert-butylphenol		
Oral	LD50	2,951 mg/kg bw (rat)
Dermal	LD50	2,288 mg/kg bw (rabbit)
140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol		
Oral	LD50	3,210 mg/kg bw (mouse)

- Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.

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- 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)		
136-52-7	cobalt bis(2-ethylhexanoate)	2B
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· 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))
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)
- 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.

US

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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
 - DOT, ADR, IMDG, IATA
- UN1263
-
- UN proper shipping name
 - DOT
 - ADR
 - IMDG
 - IATA
- 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

· 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, S-E
· 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 ml Maximum net quantity per outer packaging: 1000 ml
· 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

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)	
112-34-5	2-(2-butoxyethoxy)ethanol	
· TSCA (Toxic Substances Control Act):		
64742-48-9	Naphtha (petroleum), hydrotreated heavy (Note-p)	ACTIVE

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34590-94-8	Dipropylene glycol monomethyl ether	ACTIVE
100-64-1	cyclohexanone oxime	ACTIVE
127519-17-9	A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl]propionates	ACTIVE
22464-99-9	Zirconium 2-ethylhexanoate	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
136-52-7	cobalt bis(2-ethylhexanoate)	ACTIVE
98-54-4	4-tert-butylphenol	ACTIVE
140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol	ACTIVE
112-34-5	2-(2-butoxyethoxy)ethanol	ACTIVE

· Hazardous Air Pollutants

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

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· 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)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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

None of the ingredients is listed.

· GHS label elements

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

· Hazard pictograms



GHS02



GHS07



GHS08

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- Signal word Danger
- 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.
- 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.

- Contact:
- Date of preparation / last revision 05/18/2021 / 10
- 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
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)

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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
Flam. Liq. 4: Flammable liquids - Category 4
Skin Irrit. 2: Skin corrosion/irritation - Category 2
Eye Dam. 1: Serious eye damage/eye irritation - Category 1
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
Repr. 2: Reproductive toxicity - Category 2
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.