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

· 1.1 Product identifier

· Trade name: Epifanes Epoxy Primer Comp. B (cure)
· 1.2 Relevant identified uses of the substance or mixture and uses advised against
· Sector of Use
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU21 Consumer uses: Private households / general public / consumers
· Product category PC9a Coatings and paints, thinners, paint removers
· Process category PROC10 Roller application or brushing
· Environmental release category
ERC5 Use at industrial site leading to inclusion into/onto article
ERC8c Widespread use leading to inclusion into/onto article (indoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
· Article category AC7 Metal articles
· Application of the substance / the mixture
See our technical datasheet for application of this product.
curing component of a two-component primer

· 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
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

flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

health hazard

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.

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corrosion

Eye Dam. 1 H318 Causes serious eye damage.

environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

· 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 GHS05 GHS07 GHS08 GHS09

· Signal word Danger
· Hazard-determining components of labelling:
Fatty acids, C18-unsatd., dimers, polymers with triethyls
etetramine
Xylene
3,6-diazaoctanethylenediamin
· Hazard statements
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
· 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/hearing protection.

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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 [or shower].
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

*

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures
· Description:
Resin mixture
Solvent mixture with additives

· Dangerous components:

CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	Xylene Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%
CAS: 103758-99-2 NLP: 500-290-3 Reg.nr.: 01-2119978243-32	Fatty acids, C18-unsatd., dimers, polymers with triethyls etetramine Eye Dam. 1, H318 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	25-50%
CAS: 90-72-2 EINECS: 202-013-9 Index number: 603-069-00-0 Reg.nr.: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	Ethylbenzene Flam. Liq. 2, H225 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥2.5-<10%
CAS: 112-24-3 EINECS: 203-950-6 Index number: 612-059-00-5	3,6-diazaoctanethylenediamin Skin Corr. 1B, H314 Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥1-<2.5%

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· Additional information:
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 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. Then consult a doctor.
· 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.
· 5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
No further relevant information available.
· 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
Wear protective clothing.
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.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

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· 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
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
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:
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

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:		
1330-20-7 Xylene		
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV	
100-41-4 Ethylbenzene		
WEL	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk	
1330-20-7 Xylene		
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV	
100-41-4 Ethylbenzene		
WEL	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk	

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· Regulatory information WEL: EH40/2020

· DNEL (Derived No Effect Level) voor professionals		
1330-20-7 Xylene		
Oral	Long-term - systemic effects.	1.6 mg/kg bw/day (General population)
Inhalative	Long-term - local effects.	77 mg/m³ (Employees)
	Acute - systemic effects.	174 mg/m³ (General population)
	Long-term - systemic effects.	14.8 mg/m³ (General population)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol		
Inhalative	Long-term - systemic effects.	0.31 mg/m³ (Employees)
100-41-4 Ethylbenzene		
Dermal	Long-term - systemic effects.	180 mg/kg/day (Employees)
Inhalative	Long-term - systemic effects.	77 mg/m³ (Employees)
	Short-term systemic effects.	293 mg/m3 (Employees)

· DNEL (Derived No Effect Level) for general audience		
1330-20-7 Xylene		
Oral	Acute - systemic effects	289 mg/kg (Employees)
Dermal	Long-term - systemic effects.	180 mg/kg bw/day (Employees)
Inhalative	Long-term - systemic effects.	77 mg/m³ (Employees)
	Short-term - systemic effects.	289 mg/kg (Employees)
	Short-term - local effects.	174 mg/m³ (General population)
	Long term - systemic effects.	108 mg/kg bw/day (General population)
100-41-4 Ethylbenzene		
Oral	Long-term systemic effects.	1.6 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	15 mg/m³ (General population)

· PNECs	
1330-20-7 Xylene	
Sewage treatment plant	6.58 mg/l (Sewage treatment plant)
Aquatic compartment.	0.327 mg/l (Freshwater)
Aquatic compartment.	0.327 mg/l (Seawater)
Aquatic compartment - water, intermittent releases	0.327 mg/L (Freshwater)
Soil	12.46 mg/kg (Seawater)
	12.46 mg/kg (Freshwater)
Soil	2.31 mg/kg (soil)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	
Sewage treatment plant	0.2 mg/l (Sewage treatment plant)
Aquatic compartment.	0.084 mg/l (Freshwater)
Aquatic compartment.	0.084 mg/l (Seawater)
Intermittent	0.84 mg/l (Freshwater)

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100-41-4 Ethylbenzene	
Sewage treatment plant	9.6 mg/l (Sewage treatment plant)
Aquatic compartment.	0.1 mg/l (Freshwater)
Aquatic compartment - water, intermittent releases	0.01 mg/L (Seawater)
Soil	13.7 mg/kg (Freshwater)
Intermittent	0.1 mg/l (Intermittent)
Soil	2.68 mg/kg (soil)
Sediment	1.37 mg/kg (Seawater)

· Ingredients with biological limit values:

1330-20-7 Xylene	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls
· Appropriate engineering controls No further data; see item 7.
· Individual protection measures, such as personal protective equipment
· General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
· 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
In case of short or low load, breathing filter device; in the case of intensive or prolonged exposure, use a breathing apparatus independent of the surrounding air. A half-face mask for organic vapours and solvents according to EN140 type A1 or A2 is recommended.
· Hand protection

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

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· 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 of a maximum of 15 minutes gloves made of the following materials are suitable:
Butyl rubber, BR
· Eye/face protection

Tightly sealed goggles

*

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information	
· Physical state	Fluid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	36 °C (1330-20-7 Xylene)
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1.1 Vol %
· Upper:	7 Vol %
· Flash point:	>23 °C (1330-20-7 Xylene)
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH at 20 °C	10
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	1,400 mPas
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	0.94 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.

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· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	340 °C
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	49.8 %
· VOC content:	49.76 % VOC content: 467.7 g/l / 3.90 lb/gal
· Solids content:	50.2 % (VB% 1h150 C)
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

*

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.

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· 10.6 Hazardous decomposition products:
No dangerous decomposition products known.

*

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
· Acute toxicity

· LD/LC50 values relevant for classification:		
1330-20-7 Xylene		
Dermal	Short-term exposure (15 minutes): 100 ppm Long-term exposure (8 hours TWA): 50 ppm	442 mg/m³ (Occupational exposure limits) 221 mg/m³ (Occupational exposure limits)
100-41-4 Ethylbenzene		
Oral	LD50	3,500 mg/kg bw (rat)
Dermal	LD50	17,800 mg/kg bw (rabbit)
112-24-3 3,6-diazaoctanethylenediamin		
Oral	LD50	2,500 mg/kg bw (rat)
Dermal	LD50	805 mg/kg bw (rabbit)

· Skin corrosion/irritation Causes skin irritation.
· Serious eye damage/irritation Causes serious eye damage.
· Respiratory or skin sensitisation May cause an allergic skin reaction.
· STOT-single exposure May cause respiratory irritation.
· STOT-repeated exposure
May cause damage to the hearing organs through prolonged or repeated exposure.
· 11.2 Information on other hazards

· Endocrine disrupting properties
None of the ingredients is listed.

*

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity: No further relevant information available.
· 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.
· 12.5 Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.
· 12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
· 12.7 Other adverse effects
· Remark: Toxic for fish
· Additional ecological information:
· General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

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Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

*

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.

· Uncleaned packaging:
· Recommendation: Disposal must be made according to official regulations.
· Recommended cleansing agents:
Water, if necessary together with cleansing agents.

*

SECTION 14: Transport information

· 14.1 UN number or ID number
· ADR, IMDG, IATA UN1263

· 14.2 UN proper shipping name
· ADR 1263 PAINT, ENVIRONMENTALLY HAZARDOUS
· IMDG PAINT (Fatty acids, C18-unsatd., dimers, polymers with triethyls etetramine), MARINE POLLUTANT
· IATA PAINT

· 14.3 Transport hazard class(es)

· ADR

· Class 3 (F1) Flammable liquids.
· Label 3

· IMDG

· Class 3 Flammable liquids.
· Label 3

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· IATA

· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Fatty acids, C18-unsatd., dimers, polymers with triethyls etetramine
· Marine pollutant:	No Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-E
· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	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
· Transport category	3
· Tunnel restriction code	D/E
· Remarks:	> 450 l: 3 F1, III
· 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: 3, III
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

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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
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
· Qualifying quantity (tonnes) for the application of lower-tier requirements
200 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements
500 t

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	25-50

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
· 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
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: Research & Development.
· Contact: J.J. van Dijk, tel: +31 297 360678, email: rend@epifanes.nl
· 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

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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
IATA: International Air Transport Association
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
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
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
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * Data compared to the previous version altered.