

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

Printing date 04.02.2022

Version number 10

Revision: 04.02.2022

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

- 1.1 Product identifier
- Trade name: Epifanes Poly-urethane hardener
- 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)
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU19 Building and construction work
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category PROC19 Manual activities involving hand contact
- Environmental release category
 - ERC8c Widespread use leading to inclusion into/onto article (indoor)
 - ERC8f Widespread use leading to inclusion into/onto article (outdoor)
 - ERC5 Use at industrial site leading to inclusion into/onto article
- Article category
 - AC13 Plastic articles
 - AC7 Metal articles
 - AC11 Wood articles
- Application of the substance / the mixture
See our technical datasheet for application of this product.
Curing component of a two-component finish
- 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.



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Acute Tox. 4 H332 Harmful if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

· Additional information: For professional use only.

· 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 GHS07

· Signal word Warning

· Hazard-determining components of labelling:

Hexamethylene-1,6 diisocyanate homopolymer
Xylene

hexamethylene-di-isocyanate

· Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

· 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.

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.

· Additional information:

Contains isocyanates. May produce 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 Mixtures

· Description: Isocyanate resin in organic solvent

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· Dangerous components:		
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17	Hexamethylene-1,6 diisocyanate homopolymer ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	25-50%
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	≥2.5-<10%
CAS: 822-06-0 EINECS: 212-485-8 Index number: 615-011-00-1 Reg.nr.: 01-2119457571-37	hexamethylene-di-isocyanate ⚠ Acute Tox. 3, H331 ⚠ Resp. Sens. 1, H334 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 EUH204 Specific concentration limits: Resp.Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	≥0.1-<0.5%

· 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.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- 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.
- 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

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- 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.
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
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
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.
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.

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· 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:

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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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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822-06-0 hexamethylene-di-isocyanate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
-----	--

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
-----	--

822-06-0 hexamethylene-di-isocyanate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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· Regulatory information WEL: EH40/2020

· DNEL (Derived No Effect Level) voor professionals

28182-81-2 Hexamethylene-1,6 diisocyanate homopolymer

Inhalative	Acute / short term - local defects	0.07 mg/m ³ (Employees)
	Long-term - local effects.	0.035 mg/m ³ (Employees)

108-65-6 2-methoxy-1-methylethyl acetate

Dermal	Long-term systemic effects.	796 mg//kg/day (Employees)
Inhalative	Short term - local effects.	550 mg/m ³ (Employees)
	Long-term - systemic effects.	275 mg/m ³ (Employees)

1330-20-7 Xylene

Oral	Long-term - systemic effects.	1.6 mg/kg bw/day (General population)
Inhalative	Long-term - local effects.	77 mg/m ³ (Employees)

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	Acute - systemic effects.	174 mg/m ³ (General population)
	Long-term - systemic effects.	14.8 mg/m ³ (General population)
822-06-0 hexamethylene-di-isocyanate		
Inhalative	Acute / short term - local defects	0.07 mg/m ³ (Employees)
	Long-term - local effects.	0.035 mg/m ³ (Employees)
· DNEL (Derived No Effect Level) for general audience		
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	Long-term systemic effects.	36 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects.	320 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	33 mg/m ³ (General population)
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/m ³ (Employees)
	Short-term - systemic effects.	289 mg/kg (Employees)
	Short-term - local effects.	174 mg/m ³ (General population)
	Long term - systemic effects.	108 mg/kg bw/day (General population)
· PNECs		
28182-81-2 Hexamethylene-1,6 diisocyanate homopolymer		
Aquatic compartment.		0.049 mg/l (Freshwater)
Aquatic compartment.		0.005 mg/l (Seawater)
STP		8.42 mg/l (Segmentation, Targeting and Positioning)
Soil		0.674 mg/kg (Freshwater)
Soil		0.523 mg/kg (soil)
Sediment		0.067 mg/kg (Seawater)
108-65-6 2-methoxy-1-methylethyl acetate		
Sewage treatment plant		100 mg/l (Sewage treatment plant)
Aquatic compartment.		0.635 mg/l (Freshwater)
Aquatic compartment.		0.0635 mg/l (Seawater)
Soil		3.29 mg/kg (Freshwater)
Intermittent		6.35 mg/l (Intermittent)
Soil		0.29 mg/kg (soil)
Sediment		0.329 mg/kg (Seawater)
1330-20-7 Xylene		
Sewage treatment plant		6.58 mg/l (Sewage treatment plant)
Aquatic compartment.		0.327 mg/l (Freshwater)

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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)
822-06-0 hexamethylene-di-isocyanate	
Aquatic compartment.	0.049 mg/l (Freshwater)
Aquatic compartment.	0.005 mg/l (Seawater)
STP	8.42 mg/l (Segmentation, Targeting and Positioning)
Soil	0.674 mg/kg (Seawater)
Soil	0.523 mg/kg (soil)
Sediment	0.067 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

822-06-0 hexamethylene-di-isocyanate

BMGV 1 µmol creatinine/mol
Medium: urine
Sampling time: At the end of the period od exposure
Parameter: isocyanate-derived diamine

- 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.
- Respiratory protection:
 - 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.

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- 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

- 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 through 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: Butyl rubber, glove thickness 0.7 mm, > 480 min breakthrough time / permeation to EN374.
- 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: 145 °C
- Flammability: Not applicable.
- Lower and upper explosion limit
- Lower: 1.5 Vol %
- Upper: 10.8 Vol %
- Flash point: 38 °C
- Auto-ignition temperature: Product is not selfigniting.

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· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 20 °C	43 s (DIN 53211/4)
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	3.4 hPa
· Density and/or relative density	
· Density at 20 °C:	1.05165 g/cm ³ (ISO 2811)
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	315 °C
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	38.9 %
· VOC content:	38.88 %
	VOC content:
	408.9 g/l / 3.41 lb/gal
· Solids content:	61.1 % (VB% 1h 150C)
· 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

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· Desensitised explosives	Void
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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 hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Harmful if inhaled.

- LD/LC50 values relevant for classification:

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg bw (rat)
Dermal	Long-term exposure (8 hours TWA): 50 ppm	550 mg/m ³ (Occupational exposure limits)
Inhalative	LC50/4 h	35.7 mg/l (rat)

1330-20-7 Xylene

Dermal	Short-term exposure (15 minutes): 100 ppm	442 mg/m ³ (Occupational exposure limits)
	Long-term exposure (8 hours TWA): 50 ppm	221 mg/m ³ (Occupational exposure limits)

822-06-0 hexamethylene-di-isocyanate

Oral	LD50	738 mg/kg bw (rat)
Dermal	LD50	593 mg/kg bw (rat)

- Respiratory or skin sensitisation May cause an allergic skin reaction.
- STOT-single exposure May cause respiratory irritation.
- 11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

108-65-6 2-methoxy-1-methylethyl acetate

EC50 408-500 mg/l (daphnia magna) (48 uur/hour)

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IC 50	>1,000 mg/l (Algae, Growth inhibition test) (72 uur/hour)
LC50	100-180 mg/l (Fish Acute Toxicity Study) (96 uur/hour)

- 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
- 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.
 Danger to drinking water if even small quantities leak into the ground.

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.

SECTION 14: Transport information

- 14.1 UN number or ID number
- ADR, IMDG, IATA UN1263
- 14.2 UN proper shipping name
- ADR 1263 PAINT
- IMDG, IATA PAINT
- 14.3 Transport hazard class(es)
- ADR
- 
- Class 3 (F1) Flammable liquids.
- Label 3

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· IMDG, IATA



· Class 3 Flammable liquids.
· Label 3

· 14.4 Packing group 14.4
· ADR, IMDG, IATA III

· 14.5 Environmental hazards:
· Marine pollutant: No

· 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

· 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

· UN "Model Regulation": UN 1263 PAINT, 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 None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS

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- 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
- National regulations:
- Technical instructions (air):

Class	Share in %
I	≤0.5
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

- H226 Flammable liquid and vapour.
- 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.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- EUH204 Contains isocyanates. May produce an allergic reaction.

· 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
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

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PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids - Category 3
Acute Tox. 3: Acute toxicity - Category 3
Acute Tox. 4: Acute toxicity - Category 4
Skin Irrit. 2: Skin corrosion/irritation - Category 2
Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
Resp. Sens. 1: Respiratory sensitisation - Category 1
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
· * Data compared to the previous version altered.

GB