

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

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

- 1.1 Product identifier
- Trade name: Epifanes Accelerator for Paint & Varnish
- 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 PROC19 Manual activities involving hand contact
- 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
 - AC11 Wood articles
 - AC7 Metal articles
- Application of the substance / the mixture
See our technical datasheet for application of this product.
additive for conventional and half sythetic paints & varnishes
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
W.Heeren & Zoon bv.
Oosteinderweg 32
1432 AL Aalsmeer
Netherlands
tel.+31 297-360366
email: info@epifanes.nl
- Further information obtainable from: Research & Development.
- 1.4 Emergency telephone number: +61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)

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.



STOT SE 3

H336 May cause drowsiness or dizziness.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

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

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Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 1)

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



GHS02 GHS07

- Signal word Warning
- Hazard-determining components of labelling:
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P)
- Hazard statements
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H412 Harmful 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.
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:
EUH066 Repeated exposure may cause skin dryness or cracking.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

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

(Contd. on page 3)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 2)

· Dangerous components:		
CAS: 64742-48-9 EC number: 919-857-5 Index number: 649-327-00-6 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P) ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ STOT SE 3, H336	25-50%
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 ⚠ Aquatic Chronic 1, H410 ⚠ Skin Irrit. 2, H315	≥0.025-<0.25%
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 (M=10); ⚠ Aquatic Chronic 1, H410 (M=10) ⚠ Skin Irrit. 2, H315	≥0.025-<0.25%

· SVHC	
98-54-4	4-tert-butylphenol
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.

GB

(Contd. on page 4)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 3)

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
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.
- 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 section 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
Work only in fume cupboard.
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.

(Contd. on page 5)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 4)

- 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:
Store in dry 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:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNEL (Derived No Effect Level) voor professionals

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P)

Dermal	Long-term - systemic effects.	77 mg/kg/day (Employees)
Inhalative	Long-term - systemic effects.	871 mg/m ³ (Employees)

98-54-4 4-tert-butylphenol

Dermal	Long-term - systemic effects.	0.071 mg/kg/day (Employees)
Inhalative	Long-term - systemic effects.	0.5 mg/m ³ (Employees)

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

Dermal	Acute / short-term - systemic effects.	33 mg/kg bw/day (Employees)
	Long-term systemic effects.	11.3 mg//kg/day (Employees)
Inhalative	Acute / short-term - systemic effects.	2.4 mg/m ³ (Employees)
	Long-term - systemic effects.	0.8 mg/m ³ (Employees)

- DNEL (Derived No Effect Level) for general audience

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P)

Oral	Long-term systemic effects.	46 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects.	46 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	185 mg/m ³ (General population)

(Contd. on page 6)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 5)

98-54-4 4-tert-butylphenol		
Oral	Long-term systemic effects.	0.026 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects.	0.026 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	0.09 mg/m ³ (General population)
140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol		
Oral	Long-term systemic effects.	0.1 mg/kg bw/day (General population)
	Short-term - systemic effects.	0.1 mg/kg bw/day (General population)
Dermal	Acute / short-term - systemic effects.	16.8 mg/kg bw/day (General population)
	Long-term - systemic effects.	5.6 mg/kg bw/day (General population)
Inhalative	Acute - systemic effects.	1.8 mg/m ³ (General population)
	Long-term - systemic effects.	0.6 mg/m ³ (General population)

· PNECs

98-54-4 4-tert-butylphenol	
Freshwater	0.01 mg/l (Freshwater)
Marine water	0.001 mg/l (Marine water)
Sediment (freshwater)	0.27 mg/kg sed dw (Freshwater)
Sediment (marine water)	0.027 mg/kg sed dw (Marine water)
STP	1.5 mg/l (Segmentation, Targeting and Positioning)
Soil	0.25 mg/kg (soil)
140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol	
Freshwater	0.001 mg/l (Marine water)
Marine water	0.001 mg/l (Marine water)
Sediment (freshwater)	4.62 mg/kg sed dw (Freshwater)
Sediment (marine water)	1.23 mg/kg sed dw (Marine water)
STP	0.1 mg/l (Segmentation, Targeting and Positioning)
Soil	2.3 mg/kg (soil)

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

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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:
 - 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

(Contd. on page 7)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 6)

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

- 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 of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

- 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/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.

(Contd. on page 8)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 7)

· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	154 °C (64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P))
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	0.6 Vol %
· Upper:	7 Vol %
· Flash point:	41 °C
· Auto-ignition temperature:	240 °C
· Decomposition temperature:	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity at 20 °C	37 s (ISO 6 mm)
· Dynamic:	Not determined.
· 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:	0.90701 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:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	41.6 %
· VOC content:	41.60 %
	VOC content:
	377.3 g/l / 3.15 lb/gal
· Solids content:	58.4 % (VB% 1h 150C)
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void

(Contd. on page 9)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 8)

· 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.
- 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
Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P)

Oral	LD50	>6,000 mg/kg (rat)
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Dermal	LD50	>5,000 mg/kg (rat)
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98-54-4 4-tert-butylphenol

Oral	LD50	>5,000 mg/kg (rat)
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140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol

Oral	LD50	4,040 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg (rabbit)
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- STOT-single exposure May cause drowsiness or dizziness.

(Contd. on page 10)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 9)

· 11.2 Information on other hazards

· Endocrine disrupting properties

98-54-4	4-tert-butylphenol	List I; II
140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol	List I

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
For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse 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

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

(Contd. on page 11)

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



Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 10)

· IMDG, IATA	PAINT
· 14.3 Transport hazard class(es)	
· ADR	
	
· Class	3 (F1) Flammable liquids.
· Label	3
· 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.
· 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:	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:

(Contd. on page 12)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 11)

	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
- Poisons Act

· Regulated explosives precursors
None of the ingredients is listed.

· Regulated poisons
None of the ingredients is listed.

· Reportable explosives precursors
None of the ingredients is listed.

· Reportable poisons
None of the ingredients is listed.

- 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

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	25-50

· Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to UK REACH	
98-54-4	4-tert-butylphenol
140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol

· 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

GB

(Contd. on page 13)

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

Printing date 05.01.2024

Version number 15 (replaces version 14)

Revision: 05.01.2024

Trade name: Epifanes Accelerator for Paint & Varnish

(Contd. of page 12)

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.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H400 Very toxic to aquatic life.
- H410 Very toxic 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

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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids - Category 3

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Repr. 2: Reproductive toxicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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.