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

· **1.1 Product identifier**

· **Trade name: Wecryl 122, Wecryl 122 Weiß**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** See Section 16

· **Application of the substance / the mixture** Priming

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

WestWood Liquid Technologies Limited
31 Morris Road
Nuffield Industrial Estate
Poole, Dorset BH17 0GG
United Kingdom
Fon: +44 800 808 5480
Internet: www.westwood-uk.com

· **Further information obtainable from:**

Product safety department
Mr. Wayne Chissell
Fon: +44 7725 940 678
Email: wayne.chissell@westwood-uk.com

· **Emergency telephone number:**

24h - Emergency number
Phone: +1 872 5888271 (W)

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS07

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 GB CLP regulation.

· **Hazard pictograms**

GHS02 GHS07

· **Signal word** Danger

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· **Hazard-determining components of labelling:**
Methyl methacrylate
tetramethylene dimethacrylate
diethanol-p-toluidine
· **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
· **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P280	Wear protective clothing/ eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P312	Call a POISON CENTER/ doctor if you feel unwell.
P403+P235	Store in a well-ventilated place. Keep cool.

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Does not meet the PBT-criteria of Annex XIII of UK REACH (self assessment).
· **vPvB:** Does not meet the vPvB-criteria of Annex XIII of UK REACH (self assessment).

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**		
CAS: 80-62-6 EINECS: 202-615-1 Reg.nr.: 01-2119452498-28	Methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥50-≤100%
CAS: 2082-81-7 EINECS: 218-218-1 Reg.nr.: 01-2119967415-30	tetramethylene dimethacrylate Skin Sens. 1B, H317	2.5-10%
EC number: 911-490-9 Reg.nr.: 01-2119979579-10	diethanol-p-toluidine Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<1%

· **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:**
The usual precautionary measures for handling chemicals must be observed
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.
Supply fresh air or oxygen; call for doctor.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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· **After swallowing:** Do not induce vomiting; call for medical help immediately.
· **4.2 Most important symptoms and effects, both acute and delayed**
Skin sensitization.
Irritant to skin, eyes and respiratory system.
· **4.3 Indication of any immediate medical attention and special treatment needed**
On inhaling, also with missing illness signs, give inhalatives Corticoid (e. g. , Ventolair).

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture**
Can form explosive gas-air mixtures.
Steams are more difficult than air.
Creeping steams can lead to the inflammation in a larger distance!
· **5.3 Advice for firefighters**
· **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
· **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
· **6.3 Methods and material for containment and cleaning up:**
Do not flush with water or aqueous cleansing agents
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
· **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**
Providing good ventilating/suction at work.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:**
Highly volatile, flammable constituents are released during processing.
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.
Protect against electrostatic charges.

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Protect from heat.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Store in a cool location.
· **Information about storage in one common storage facility:** Store away from oxidising agents.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Keep container tightly sealed.
Protect from heat and direct sunlight.
· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**
· **Additional information about design of technical facilities:** No further data; see section 7.

· **Ingredients with limit values that require monitoring at the workplace:**	
80-62-6 Methyl methacrylate (50-100%)	
WEL	Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm

· **DNELs**		
80-62-6 Methyl methacrylate		
Inhalative	DNEL	208 mg/m³ (worker)
	DNEL (worker)	210 mg/m³ (Long-term - local effects)
		210 mg/m³ (Long-term - systemic effects) Long-term
	DNEL (population)	74.3 mg/m³ (Long-term - systemic effects)
		105 mg/m³ (Long-term - local effects)
2082-81-7 tetramethylene dimethacrylate		
Dermal	DNEL (worker)	4.2 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (worker)	14.5 mg/m³ (Long-term - systemic effects)
diethanol-p-toluidine		
Dermal	DNEL (worker)	1.4 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (worker)	9.8 mg/m³ (Long-term - systemic effects)

· **PNECs**	
80-62-6 Methyl methacrylate	
PNEC	1.48 mg/kg
PNEC sediment	1.47 mg/kg dw (ground)
	5.74 mg/kg dw (freshwater)
PNEC	10 mg/l
	0.094 mg/l (seawater)
	0.94 mg/l (freshwater)
diethanol-p-toluidine	
PNEC sediment	0.12 mg/kg dw (seawater)
	1.2 mg/kg dw (water)

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PNEC	0.005 mg/l (seawater) 0.048 mg/l (water)

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

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the skin.
· **Respiratory protection:**
In interiors and at transgression of the limiting values breath filtration device: Filter type A1 using an air recycling independent breathing apparatus at high concentrations A2 at an intensive or longer outline.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Check protective gloves prior to each use for their proper condition.
Check the permeability prior to each anewed use of the glove.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
General recommendation: The usage time of the protective gloves is approx. 50% of the penetration time measured in the laboratory!
· **Material of gloves**

Butyl rubber gloves - butyl e.g. KCL BUTOJET
Recommended thickness of the material: ≥ 0.7 mm
Breakthrough time: ≥ 480 min

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.
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.
Protective gloves according EN 374.
Saitable material: nitrile.
· **Penetration time of glove material**
Our Recommendation is mainly on a one-time use as a short-term protection Liquid splashes. For other applications, you should contact a glove manufacturer.
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 in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
Butyl rubber, BR
· **For the permanent contact gloves made of the following materials are suitable:** Butyl rubber, BR
· **Not suitable are gloves made of the following materials:** Leather gloves

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· **Eye protection:**

Tightly sealed goggles EN standard: EN 166

· **Body protection:**

Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Fluid
Colour:	Different according to colouring
· **Odour:**	Ester-like
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined. Mixture is non-polar/aprotic.
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
· **Flash point:**	17 °C
· **Flammability**	Not applicable. Highly flammable.
· **Auto-ignition temperature:**	430 °C (80-62-6 Methyl methacrylate)
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. Not determined.
· **Explosion limits:**	
Lower:	2.1 Vol % (80-62-6 Methyl methacrylate)
Upper:	12.5 Vol % (80-62-6 Methyl methacrylate)
· **Vapour pressure at 20 °C:**	38.7 hPa (80-62-6 Methyl methacrylate)
· **Density at 20 °C:**	0.98-1.05 g/cm³ (EN ISO 2811-1)
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.

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· **Partition coefficient: n-octanol/water:**	log Pow: 1,38 (MMA)
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C:	15-25 s (ISO 6 mm)
· **Solvent content:**	
Organic solvents:	≥0-<0.1 %
VOC (EC)	≥0.04-<0.06 %
Solids content:	30-37 %
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** see Section 10.2
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions**
Exothermic reaction.
Reacts with peroxides and other radical forming substances.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:**
Carbon monoxide
No dangerous decomposition prodocts used accordind to specifications.
· **Additional information:**
Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan to the workplace may be present.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects** There were no toxicological findings to the mixture.
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**		
80-62-6 Methyl methacrylate		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
	NOAEL	2,000 ppm (rat) n drinking water, 6-2000 ppm Findings: No toxic effects
	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (hare)
	LC50	>5,000 mg/kg (rabbit)
	LD50	>5,000 mg/kg (hare)
Inhalative	NOAEL	25 ppm (rat) 25 - 400 ppm Findings: Damage to mucous membranes in the nose at 400 ppm
	LC50/4h	29.8 mg/l (rat)

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2082-81-7 tetramethylene dimethacrylate		
Oral	LD50	>5,000 mg/kg (rat)
	NOAEL	300 mg/kg (rat) (OECD 422)
Dermal	LD50	>5,000 mg/kg (rat)
	LD50	>2,000 mg/kg (hare)
	LC50	>3,000 mg/kg (rabbit)
	LD50	>2,000 mg/kg (hare)
diethanol-p-toluidine		
Oral	LD50	500 mg/kg (ATE)

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Causes skin irritation.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
· **Other information (about experimental toxicology):**
Due to the high vapor pressure is a harmful concentration in the air quickly been reached. At high concentrations can occur narcotic effect.
· **Subacute to chronic toxicity:** not tested
· **Additional toxicological information:**
· **Toxicokinetics, metabolism and distribution** The drug is metabolized rapidly (MMA).

· **Acute effects (acute toxicity, irritation and corrosivity)**		
80-62-6 Methyl methacrylate		
Oral	LD50	>5,000 mg/kg (rat)
2082-81-7 tetramethylene dimethacrylate		
Oral	LD50	>5,000 mg/kg (rat)

· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** not tested
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure**
May cause respiratory irritation.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**	
80-62-6 Methyl methacrylate	
EC3/16h	100 mg/l (Pseudomonas putida) (Cell proliferation inhibition test, Bringmann-Kühn)
EC50/21d	49 mg/l (daphnia)
2082-81-7 tetramethylene dimethacrylate	
EC10/21d	7.51 mg/l (daphnia)
	7.51 mg/l (daphnia magna) (OECD 211)

· **Aquatic toxicity:**	
80-62-6 Methyl methacrylate	
EC50	170 mg/l (aquatic algae and cyanobacteria)

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EC50/48h	69 mg/l (daphnia)
	69 mg/l (daphnia magna) (OECD 202)
LC50/96h	>79 mg/l (aquatic vertebrates - in vivo)
	>79 mg/l (Rainbow trout) (OECD 203)
ErC50/72h	>110 mg/l (alga)
	>110 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC/72h	49 mg/l (alga)
	>110 mg/l (Selenastrum capricornutum) (OECD 201)
NOEC/21d	37 mg/l (daphnia)
EC50/72h	>110 mg/l (Selenastrum capricornutum) (OECD 201)
EC0	100 mg/l (eschrichia coli)
NOEC	9.4 mg/l (Danio rerio) (OECD 210) fish early life stage test, 35 days
	37 mg/l (daphnia magna) (OECD 211) 21 days
2082-81-7 tetramethylene dimethacrylate	
LC50/48h	32.5 mg/l (Leuciscus idus melanotus)
LC50/96h	3.34 mg/l (zebrafish)
EC50/72h	9.79 mg/l (aquatic algae and cyanobacteria)
	9.79 mg/l (alga)
	9.79 mg/l (Alge (Desmodesmus subspicatus)) (OECD 201)
EC10/72h	4.35 mg/l (alga)
NOEC	20 mg/l (act)
	20 mg/l (activated sludge)

· **12.2 Persistence and degradability** No further relevant information available.
· **Other information:** The product is easily biodegradable.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil**
MMA: A binding to the solid phase of soil, sediment and sewage sludge is not expected. From the water surface the substance is slowly evaporated into the atmosphere. Where the substance into the environment he verleibt preferably in the compartment into which it has emerged.
· **Additional ecological information:**
· **BOD5-value:** 0.14 g/g (MMA)
· **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.
Do not allow product to reach ground water, water course or sewage system.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Does not meet the PBT-criteria of Annex XIII of UK REACH (self assessment).
· **vPvB:** Does not meet the vPvB-criteria of Annex XIII of UK REACH (self assessment).
· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, waste must be in compliance with local regulations to be removed.

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· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Waste disposal key:**
The following waste codes of the European Waste Catalogue (EWC), are considered a recommendation. The Disposal must be coordinated with the local waste disposal company.

Liquid product:
080 409 * adhesives and sealants containing organic solvents or other dangerous substances contain.
080 410 adhesives and sealants containing wastes other than those mentioned under * 080 409.

Cured product:
170 203 plastic

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1263
· **14.2 UN proper shipping name**	
· **ADR**	1263 PAINT
· **IMDG, IATA**	PAINT
· **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):**	-

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· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	E
· **Remarks:**	> 450 litres Packing group II Classification according to viscosity clause (2.2.3.1.4)
· **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:**	> 450 litres Packing group II Classification according to viscosity clause (2.3.2.2)
· **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:**

· **Information about limitation of use:**
Employment restrictions under the Maternity Protection Directive (94/33/EC).
Employment restrictions for maternity Directive (92/85/EEC) for expectant and nursing mothers.

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*
SECTION 16: Other information

These figures relate to the product as delivered.

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.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

· **Training hints**
Teaching about hazards and precautions to hand the operating instructions (Technical Rule 555). Instruction must take place before the start of employment and at least annually thereafter.

· **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
ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **Sources**
www.gestis.de
www.echa.eu
logkow.cisti.nrc.ca

· *** Data compared to the previous version altered.**