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

· **1.1 Product identifier**

· **Trade name: Wekat 900**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** See Section 16
· **Application of the substance / the mixture** Hardening agent/ Curing agent

· **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

Self-react. D H242 Heating may cause a fire.


GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.


GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

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

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· **Hazard pictograms**

GHS02 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Dibenzoyl peroxide
· **Hazard statements**
H242 Heating may cause a fire.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.
· **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P273 Avoid release to the environment.
P280 Wear protective clothing/ eye protection.
P370+P378 In case of fire: Use CO_2, powder or water spray to extinguish.
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: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	Dibenzoyl peroxide Org. Perox. B, H241; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 94-49-5 EINECS: 202-338-6 Reg.nr.: 01-2120759933-41	Ethylene Glycol Dibenzoate Aquatic Chronic 2, H411	25-50%

· **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.
Take affected persons out of danger area and lay down.
If symptoms occur or in case of any doubt, consult a doctor. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
· **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.

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Take affected persons into fresh air and keep quiet.
Seek medical treatment.

· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
Remove wetted clothing immediately.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**
Rinse mouth with water (only if the casualty is conscious).
Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**
Irritant to skin, eyes and respiratory system.

· **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:**
Carbon dioxide, sand, extinguishing powder, foam.
Water spray

· **For safety reasons unsuitable extinguishing agents:**
Halone
Water with full jet

· **5.2 Special hazards arising from the substance or mixture**
In the event of decomposition without signs of fire, there is a risk of explosion due to the resulting vapour-air mixture. Caution: Re-ignition may occur. Decomposition under the influence of heat. Do not inhale in case of fire and / or explosion.
At the temperature of self-accelerating decomposition (+55 °C), explosive decomposition of the product occurs.
CAUTION: Re-ignition possible; the product maintains combustion processes.
Fire produces dense black smoke. Inhalation of hazardous decomposition products can cause serious damage to health.
Under certain fire conditions, traces of other toxic gases cannot be excluded.
Carbon monoxide (CO)
Carbon dioxide (CO_2)
Benzoic acid, benzene

· **5.3 Advice for firefighters**

· **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
Wear self-contained respiratory protective device.

· **Additional information**
Cool endangered receptacles with water spray.
Evacuate all non-essential persons. Extinguish a small fire with powder or carbon dioxide and then use water to prevent re-ignition.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Do not inhale dust.


Keep away from ignition sources.

Avoidance of electrostatic charging.
If the temperature continues to rise, cool with a water jet from a safe distance.
Remove persons from danger area.
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
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.
First moisten with water.

· **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**
Not giving remnants back into the storage vessels.
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Restrict the quantity stored at the work place.
Handle with care. Avoid jolting, friction and impact.
Providing good ventilating/suction at work.
at least 7-fold air changes per hour

· **Information about fire - and explosion protection:**
Highly volatile, flammable constituents are released during processing.
Keep ignition sources away - Do not smoke.
Use explosion-proof apparatus / fittings and spark-proof tools.
Dust can combine with air to form an explosive mixture.
Substance/product is oxidising when dry.
Prevent impact and friction.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.
Store in accordance with local and national regulations.

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Store in a cool location.

· **Information about storage in one common storage facility:**
Organic peroxides must not be set down or stored together with heavy metal compounds or amines or their preparations.

· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
max. Storage temperature 30 ° C
Store receptacle in a well ventilated area.
Protect from contamination.
Store in a cool place.
Keep contents moist.
Keep container tightly sealed.

· **Storage class:**
Lagerklasse 5.2 "Organische Peroxide und selbstzersetzliche Gefahrstoffe" nach TRGS 510

· **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:**	
94-36-0 Dibenzoyl peroxide (25-50%)	
WEL	Long-term value: 5 mg/m³

· **DNELs**		
94-36-0 Dibenzoyl peroxide		
Oral	DNEL (population)	1.65 mg/kg bw/day (population)
Dermal	DNEL	2.9 mg/m³ (population)
	DNEL	6.6 mg/kg bw/day (Employee / Industrial / Commercial)
		3.3 mg/kg bw/day (population)
Inhalative	DNEL	11.75 mg/m³ (Employee / Industrial / Commercial)
		2.9 mg/m³ (population)
94-49-5 Ethylene Glycol Dibenzoate		
Dermal	DNEL (worker)	3 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (worker)	10.6 mg/m³ (Long-term - systemic effects)

· **PNECs**		
94-36-0 Dibenzoyl peroxide		
Oral	PNEC oral	6.67 mg/kg (Nahrungsmittel)
	PNEC	0.0758 mg/kg (ground)
		0.338 mg/kg (sediment) (Süßwasser)
	PNEC	0.35 mg/l (sewage plant)
		0.0000602 mg/l (seawater)
		0.000602 mg/l (freshwater)
94-49-5 Ethylene Glycol Dibenzoate		
	PNEC	0.44 mg/l (ground)
		2.23 mg/l (sediment)
		0.00073 mg/l (seawater)
		0.0073 mg/l (freshwater)

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· **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.
Use skin protection cream for skin protection.
Keep away from foodstuffs, beverages and feed.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.
· **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
Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.
Check protective gloves prior to each use for their proper condition.
General recommendation: The usage time of the protective gloves is approx. 50% of the penetration time measured in the laboratory!
· **Material of gloves**
The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer.
Protective gloves according to EN 374.
· **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:**
Neoprene gloves
Nitrile rubber, NBR
· **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
· **Eye protection:**

Tightly sealed goggles EN standard: EN 166

· **Body protection:**

Protective work clothing

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Powder
Colour:	White
· **Odour:**	Weak, characteristic
· **Odour threshold:**	Not determinable.
· **pH-value at 20 °C:**	~7
· **Change in condition**	
Melting point/freezing point:	58 °C (Dekompozycja)
Initial boiling point and boiling range:	Not applicable (Decomposes)
· **Flash point:**	Not applicable.
· **Flammability**	Decomposition products may be flammable.
· **Decomposition temperature:**	SADT - (self-accelerating decomposition temperature) is the lowest temperature at which self-accelerating decomposition can occur in the transport packaging. A dangerous self-accelerating decomposition reaction under unfavourable conditions, explosion or fire can be caused by thermal decomposition at or above the SADT. Contact with incompatible substances can also cause decomposition below the SADT. Self-accelerating decomposition temperature (SADT): 55 °C
· **Ignition temperature:**	Decomposition product(s) may be flammable.
· **Explosive properties:**	Product does not present an explosion hazard. Risk of explosion by shock, friction, fire or other sources of ignition.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Oxidising properties**	not available
· **Vapour pressure:**	Not applicable.
· **Density at 20 °C:**	0.56-0.58 g/cm³ (EN ISO 2811-1)
· **Bulk density:**	560-580 kg/m³
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Partition coefficient: n-octanol/water:**	Dibenzoyl peroxide log POW 3.2 at 22 °C (OECD 107; ECHA)
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.

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· **9.2 Other information**	Aktivsauerstoff 3,24 - 3,47 %

SECTION 10: Stability and reactivity

· **10.1 Reactivity** see Section 10.2
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
SADT - (self-accelerating decomposition temperature) is the lowest temperature at which self-accelerating decomposition can occur in the transport packaging.
A dangerous self-accelerating decomposition reaction, under unfavourable circumstances explosion or fire, can be caused by thermal decomposition at or above the specified temperature: 55 °C. Contact with incompatible substances may cause decomposition at or below the SADT 55 °C.
To avoid thermal decomposition do not overheat.
Avoid impact, friction, heat, sparks and electrostatic charge.
· **10.3 Possibility of hazardous reactions**
Reacts with alkali, amines and strong acids.
Reacts with certain metals.
· **10.4 Conditions to avoid** Avoid impact, friction, heat, sparks and electrostatic charge.
· **10.5 Incompatible materials:**
Avoid contact with rust, iron and copper.
Hazardous decomposition on contact with incompatible substances such as acids, alkalis, heavy metals and reducing agents.
Do not mix with peroxide accelerators.
Only use stainless steel according to DIN 1.4571, PVC, polyethylene or glass-lined equipment.
Acids and bases
Iron
copper
Reducing agents
Heavy metals
Rust
· **10.6 Hazardous decomposition products:** In case of fire: see section 5.
· **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:**		
94-36-0 Dibenzoyl peroxide		
Oral	LD50	>2,000 mg/kg (mouse)
Inhalative	LC50	>24,300 mg/l (rat) (OECD 403)
94-49-5 Ethylene Glycol Dibenzoate		
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
	NOAEL	300 mg/kg (rat) (OECD 422) Expositionszeit 92 d

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· **Primary irritant effect:**
· **Skin corrosion/irritation** Irritant effect
· **Serious eye damage/irritation**
Causes serious eye irritation.
· **Respiratory or skin sensitisation**
May cause an allergic skin reaction.

· **Subacute to chronic toxicity:**		
94-36-0 Dibenzoyl peroxide		
Oral	NOAEL	200 mg/kg/d (rat) adverse effect observed
		500 mg/kg/d (unknown) Concentration at which no adverse effect was observed.
	NOAEL/29d	1,000 mg/kg/d (unknown) Konzentration, bei der kein schädlicher Effekt beobatet wurde.

· **Additional toxicological information:**

· **Repeated dose toxicity**		
94-49-5 Ethylene Glycol Dibenzoate		
Oral	LOAEL/92d	1,000 mg/kg (rat) (OECD 422)

· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
· **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** Based on available data, the classification criteria are not met.
· **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**	
94-49-5 Ethylene Glycol Dibenzoate	
EC50/3h (static)	>1,280 mg/l (activated sludge) (OECD 209)
EC50/21d	1.4 mg/l (daphnia magna) (OECD 211)
EC10/21d (static)	0.79 mg/l (daphnia magna) (OECD 211)

· **Aquatic toxicity:**	
94-36-0 Dibenzoyl peroxide	
EC50	35 mg/l (bacteria) (Atmungsinhibierungstest für Belebtschlamm) 0,5 h
EC50/48h	0.11 mg/l (daphnia magna) (OECD-Richtline 202)
LC50/96h	0.06 mg/l (fish)
NOEC/72h	0.02 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50/72h	0.0711 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC	0.077 mg/l (daphnia magna) (OECD-Richtline 202) 48 h
	0.0316 mg/l (Rainbow trout) OECD 203 96 h

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94-49-5 Ethylene Glycol Dibenzoate	
LC50/96h (static)	>0.434 mg/l (Danio rerio) (Acute toxicity to fish)
ErC50/72h (static)	>0.87 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC/72h (static)	0.045 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC/21d (static)	0.65 mg/l (daphnia magna) (OECD 211)
NOEC (static)	0.073 mg/l (Danio rerio)

· **12.2 Persistence and degradability**
Ethylene glycol dibenzoate
Biodegradability: Type of test: Closed bottle test
Biodegradation: 81 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes
Readily biodegradable.

Dibenzoyl peroxide
Biodegradability: Result: Potentially biodegradable
· **12.3 Bioaccumulative potential**
Dibenzoyl peroxide:
Partition coefficient: n-octanol/water : log Pow: 3.2 (20 °C)
· **12.4 Mobility in soil** Dibenzoyl peroxide log Koc: 6310 (22 °C)
· **Ecotoxical effects:**
· **Remark:**
Very toxic to aquatic organisms.
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.
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
· **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.
· **Recommendation**

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

Must be specially treated adhering to official regulations.

· **Uncleaned packaging:**
· **Recommendation:**
Packaging must be completely emptied and disposed of properly in accordance with the statutory regulations.

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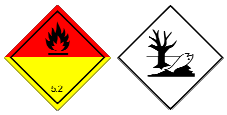
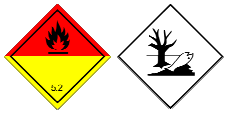
Packaging that is not completely empty must be disposed of in consultation with the regional waste disposal company.
Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN3106
· **14.2 UN proper shipping name**	
· **ADR**	3106 ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide, Ethylene Glycol Dibenzoate)
· **IMDG, IATA**	ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide, Ethylene Glycol Dibenzoate)
· **14.3 Transport hazard class(es)**	
· **ADR**	
· **Class**	5.2 (P1) Organic peroxides.
· **Label**	5.2
· **IMDG**	
· **Class**	5.2 Organic peroxides.
· **Label**	5.2
· **IATA**	
· **Class**	5.2 Organic peroxides.
· **Label**	5.2
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	Void
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	Yes
	Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Organic peroxides.
· **Hazard identification number (Kemler code):**	-
· **EMS Number:**	F-J,S-R
· **Stowage Category**	D

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· **Stowage Code**	SW1 Protected from sources of heat.
· **Segregation Code**	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	500 g
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **Transport category**	2
· **Tunnel restriction code**	D
· **IMDG**	
· **Limited quantities (LQ)**	500 g
· **Excepted quantities (EQ)**	Code: E0 Not permitted as Excepted Quantity
· **UN "Model Regulation":**	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE, ETHYLENE GLYCOL DIBENZOATE), 5.2

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**
P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
E1 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 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.

Sector of Use
Relevant identified uses of the mixture
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU19 Building and construction work
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against
SU21 Consumer uses: Private households / general public / consumers

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**
H241 Heating may cause a fire or explosion.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic 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:**
ICAO: International Civil Aviation Organisation
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Self-react. D: Self-reactive substances and mixtures – Type C/D
Org. Perox. B: Organic peroxides – Type B
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – 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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **Sources**
www.gestis.de
www.echa.eu
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· *** Data compared to the previous version altered.**