

## Safety Data Sheet

### PLANIGROUT 300 SP comp. B

Safety Data Sheet dated: 19/03/2021 - version 1

## Section 1. Identification of the substance and supplier

### Product identifier

Mixture identification:

Trade name: PLANIGROUT 300 SP comp. B

Trade code: 900478

### Recommended use of the chemical and restrictions on use

Recommended use: Hardener for epoxy products

Uses advised against: Data not available

### Supplier's details

Company: MBP (NZ) Ltd. - 88 Carbine Road, Mount Wellington, Auckland 1060, New Zealand  
enquiries@MBPLtd.co.nz - www.MBPLtd.co.nz

### Emergency phone number

New Zealand Poisons Centre: Ph: 0800 764 766

## Section 2. Hazards identification

### HSNO hazard classification

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001

### HSNO classification:

- |      |   |
|------|---|
| 8.2B | H314 - Causes severe skin burns and eye damage.   |
| 8.3A | H318 - Causes serious eye damage.   |
| 6.5B | H317 - May cause an allergic skin reaction.   |
| 6.8B | H361.G - Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed. |
| 9.1C | H412 - Harmful to aquatic life with long lasting effects.   |

### Hazard information

#### Pictograms and Signal Words



Danger

### Hazard statements:

- |      |  |
|------|--|
| H314 | Causes severe skin burns and eye damage.   |
| H317 | May cause an allergic skin reaction.   |
| H318 | Causes serious eye damage.   |
| H361 | Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed. |
| H412 | Harmful to aquatic life with long lasting effects.   |

### Precautionary statements:

- |                |  |
|----------------|--|
| P201           | Obtain special instructions before use.  |
| P202           | Do not handle until all safety precautions have been read and understood.  |
| P260           | Do not breathe dust/fume/gas/mist/vapours/spray.   |
| P264           | Wash hands thoroughly after handling.  |
| P272           | Contaminated work clothing should not be allowed out of the workplace.   |
| P273           | Avoid release to the environment.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P281           | Use personal protective equipment as required.   |
| P301+P330+P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.   |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.  |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.                       |
| P304+P340      | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                 |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see supplementary instructions on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

**Other hazards which do not result in a classification**

No other hazards

**Section 3. Composition/information on ingredients**

**Substances**

N.A.

**Mixtures**

Mixture identification: PLANIGROUT 300 SP comp. B

**Hazardous components within the meaning of HSNO Act and related classification**

Concentration (% w/w)	Name	Ident. Numb.	Classification
≥25 - <50 %	Fatty acids, tall-oil, reaction products with teta	CAS:68155-17-9 EC:268-945-3	6.4A, H319
≥25 - <50 %	fatty acids, C18 unsatd., dimers, oligomeric reaction products with teta	CAS:68082-29-1 EC:500-191-5	6.5B, H317; 6.4A, H319; 6.3A, H315; 9.1C, H412
≥20 - <25 %	Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	CAS:90640-67-8 EC:292-588-2 Index:612-059-00-5	6.1D (dermal), H312; 6.1D (oral), H302; 8.2B, H314; 8.3A, H318; 6.5B, H317; 9.1C, H412
≥10 - <20 %	bisphenol A; 4,4'-isopropylidenediphenol	CAS:80-05-7 EC:201-245-8 Index:604-030-00-0	8.3A, H318; 6.5B, H317; 6.8B, H361; 6.1E (respiratory tract irritant), H335; 9.1B, H411
≥0.49 - <1 %	Amines, polyethylenepoly-, tetraethylenepentamine fraction	CAS:90640-66-7 EC:292-587-7 Index:612-060-00-0	6.1D (dermal), H312; 6.1D (oral), H302; 8.2B, H314; 6.5B, H317; 9.1B, H411

**Section 4. First aid measures**

**Description of necessary first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

**Indication of immediate medical attention and special treatment needed, if necessary**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

**Most important symptoms/effects, acute and delayed**

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

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## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

None in particular.

### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

### Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

### Methods and materials for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

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## Section 7. Handling and storage

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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## Section 8. Exposure controls/personal protection

### Workplace Exposure Standards

#### Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency Remark
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	90640-67-8	0.19 mg/l	Fresh Water	
		0.038 mg/l	Marine water	
		95.5 mg/kg	Freshwater sediments	
		19.2 mg/kg	Marine water sediments	

Amines, polyethylenepoly-, tetraethylenepentamine fraction	90640-66-7	19.1 mg/kg	Soil
		0.00068	Fresh Water mg/l
		0.00068	Marine water mg/l
		3.34 mg/kg	Freshwater sediments
		0.343 mg/kg	Marine water sediments
		0.683 mg/kg	Soil

**Derived No Effect Level. (DNEL)**

<b>Component</b>	<b>CAS-No.</b>	<b>Worker Industr y</b>	<b>Worker Profess ional</b>	<b>Consu mer</b>	<b>Exposure Route</b>	<b>Exposure Frequency</b>	<b>Remark</b>
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	90640-67-8		0.57 mg/kg	0.25 mg/kg	Human Dermal	Long Term, systemic effects	
			0.001 mg/l	0.00029 mg/l	Human Inhalation	Long Term, systemic effects	
				8 mg/kg	Human Dermal	Short Term, systemic effects	
				0.41 mg/kg	Human Oral	Long Term, systemic effects	
Amines, polyethylenepoly-, tetraethylenepentamine fraction	90640-66-7	0. 028000		0. 430000 mg/cm2	Human Dermal	Short Term, local effects	
				10 mg/kg	Human Dermal	Short Term, systemic effects	
			0.74 mg/kg	0.32 mg/kg	Human Dermal	Long Term, systemic effects	
				0.53 mg/kg	Human Oral	Long Term, systemic effects	
		0.00129 mg/l	0.00038 mg/l	Human Inhalation	Long Term, systemic effects		

**Engineering Controls**

N.A.

**Personal Protective Equipment (PPE)**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; AS/NZS 2161.10:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Use adequate protective respiratory equipment.

Thermal Hazards:

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## Section 9. Physical and chemical properties

Physical state: Liquid  
 Appearance and colour: Liquid Amber  
 Odour: ammonia  
 Odour threshold: N.A.  
 pH: N.A.  
 Melting point / freezing point: N.A.  
 Initial boiling point and boiling range: N.A.  
 Flash point: 110 °C (230 °F)  
 Flammability (Solid, Gas): N.A.  
 Upper/lower flammability or explosive limits: N.A.  
 Vapour pressure: N.A.  
 Vapour density: N.A.  
 Relative density: N.A.  
 Solubility in water: Insoluble  
 Solubility in oil: partly soluble  
 Partition coefficient (n-octanol/water): N.A.  
 Auto-ignition temperature: N.A.  
 Decomposition temperature: N.A.  
 Viscosity: 750.00 cPs  
 Kinematic viscosity: N.A.  
 Particle characteristics: No data available

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## Section 10. Stability and reactivity

### Reactivity

Stable under normal conditions

### Chemical stability

Data not available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

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## Section 11. Toxicological information

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

fatty acids, C18 unsatd., a) acute toxicity LD50 Oral > 2000 mg/kg  
 dimers, oligomeric  
 reaction products with  
 teta

Amines,  
 polyethylenepoly-,  
 triethylenetetramine  
 fraction (TETA) a) acute toxicity LD50 Oral Rat = 1760 mg/kg  
 LD50 Skin Rabbit = 1465 mg/kg  
 b) skin corrosion/irritation Skin Irritant Positive

bisphenol A; 4,4'-  
 isopropylidenediphenol a) acute toxicity LD50 Oral Rat = 4100 mg/kg  
 LD50 Oral Rat = 3300 mg/kg

		LC50 Rabbit = 3000 mg/kg
		LD50 Skin Rabbit = 3000 mg/kg
		LD50 Skin Rabbit = 3 ml/kg
		LC50 Inhalation Rat > 170 mg/m <sup>3</sup> 6h
		LD50 Oral Rat = 3300 mg/kg
	b) skin corrosion/irritation	Skin Irritant Positive
		Respiratory Tract Irritant Positive
	c) serious eye damage/irritation	Eye Irritant Positive
Amines, polyethylenepoly-, tetraethylenepentamine fraction	a) acute toxicity	LD50 Oral Rat = 3250 mg/kg
		LD50 Skin Rabbit > 1000 mg/kg
	d) respiratory or skin sensitisation	Skin Sensitization Rabbit Positive

**If not differently specified, the information required in the regulation and listed below must be considered as N.A.**

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- Toxicological kinetics, metabolism and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

## Section 12. Ecological information

### Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

### List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
fatty acids, C18 unsatd., dimers, oligomeric reaction products with teta	CAS: 68082-29-1 - EINECS: 500-191-5	a) Aquatic acute toxicity : LC50 Fish > 10 mg/L 96
		a) Aquatic acute toxicity : EC50 Algae > 4.34 mL/L 72
		a) Aquatic acute toxicity : EC50 Daphnia > 10 mg/L 24
		a) Aquatic acute toxicity : LC50 Fish Danio rerio = 7.07 mg/L 96h ECHA
Amines, polyethylenepoly-, triethylenetetramine fraction (TETA)	CAS: 90640-67-8 - EINECS: 292-588-2 - INDEX: 612-059-00-5	a) Aquatic acute toxicity : LC50 Fish = 330 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = 31.1 mg/L 48
		a) Aquatic acute toxicity : EC50 Algae = 20 mg/L 72
bisphenol A; 4,4'-isopropylidenediphenol	CAS: 80-05-7 - EINECS: 201-245-8 - INDEX: 604-030-00-0	a) Aquatic acute toxicity : LC50 Fish = 4.7 mg/L 96
		a) Aquatic acute toxicity : LC50 Daphnia = 10.2 mg/L 48
		a) Aquatic acute toxicity : LC50 Algae = 3 mg/L

- a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 4 mg/L 96h EPA
- a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 4 mg/L 96h IUCLID
- a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 3.6 mg/L 96h EPA
- a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 9.9 mg/L 96h IUCLID
- a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 10.2 mg/L 48h IUCLID
- a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 3.9 mg/L 48h IUCLID
- a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 9.2 mg/L 48h EPA
- a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 2.5 mg/L 96h IUCLID

Amines, polyethylenepoly-, tetraethylenepentamine fraction

CAS: 90640-66-7 -  
EINECS: 292-587-7  
- INDEX: 612-060-00-0

- a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96

- a) Aquatic acute toxicity : EC50 Daphnia = 24.1 mg/L 48
- a) Aquatic acute toxicity : EC50 Algae > 2.1 mg/L 72
- a) Aquatic acute toxicity : NOEC Algae = 0.5 mg/L

#### **Persistence and degradability**

N.A.

#### **Bioaccumulative potential**

N.A.

#### **Mobility in soil**

N.A.

#### **Other adverse effects**

N.A.

### **Section 13. Disposal considerations**

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

#### **Special precautions to be taken during disposal**

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

### **Section 14. Transport information**

#### **UN number**

2735

#### **UN proper shipping name**

NZS-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

#### **Transport hazard class(es)**

NZS-Class: 8

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

**Packing group, if applicable**

NZS-Packing Group: II

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: No

**Special precautions for user**

NZS-Subsidiary risks: -

NZS-Special Dispositions: 274

Road and Rail ( ADR-RID ) :

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Special Provisions: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

Air ( IATA ) :

IATA-Passenger Aircraft: 851

IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea ( IMDG ) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: SG35

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274

IMDG-EMS: F-A, S-B

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**Section 15. Regulatory information**

**HSNO Approval**

HSNO approval number and group standard title:

HSR002658 - Surface Coatings and Colourants (Corrosive) Group Standard 2006

**HSNO Controls**

**Approved Handler**

No data available

**New Zealand Inventory of Chemicals (NZIoC)**

All components are listed on the NZIoC Inventory.

**Regulatory references**

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Hazardous Substances (Classification) Regulations 2001.

Labelling of Hazardous Substances: Hazard and Precautionary Information (January 2012 EPA0094).

Assigning a Product to a HSNO Approval (May 2013/Revised June 2014).

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**Section 16. Other information**

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<b>Code</b>	<b>Description</b>
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.



H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child in contact with skin and if swallowed.
H361	Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Description of the HSNO Classification codes used in section 2 or 3:**

<b>Code</b>	<b>Description</b>
6.1D (dermal)	Substances that are acutely toxic - Harmful (dermal).
6.1D (oral)	Substances that are acutely toxic - Harmful (oral).
6.1E (respiratory tract irritant)	Respiratory tract irritant.
6.3A	Substances that are irritating to the skin.
6.4A	Substances that are irritating to the eye.
6.5B	Substances that are contact sensitisers.
6.8B	Substances that are suspected human reproductive or developmental toxicants.
8.2B	Substances that are corrosive to dermal tissue UN PGII.
8.3A	Substances that are corrosive to ocular tissue.
9.1B	Substances that are ecotoxic in the aquatic environment.
9.1C	Substances that are harmful in the aquatic environment.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

HSNO: Hazardous Substances and New Organisms Act 1996.