

Safety Data Sheet

MAPEFLOOR FINISH 451 parte B

Safety Data Sheet dated: 22/3/2019 - version 1



Section 1. Identification of the substance and supplier

Product identifier

Mixture identification:

Trade name: MAPEFLOOR FINISH 451 parte B

Trade code: 906QB9999

Recommended use of the chemical and restrictions on use

Recommended use: Crosslinking agent

Uses advised against: Data not available

Supplier's details

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

Website: www.MBPLtd.co.nz - Phone: +64 9 921 1994 (Mon-Fri 9am-5pm) - Fax: +64 9 921 1993

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 2017.

HSNO classification:

3.1C	H226 - Flammable liquid and vapour.
6.3A	H315 - Causes skin irritation.
6.4A	H319 - Causes serious eye irritation.
6.5A	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
6.5B	H317 - May cause an allergic skin reaction.
6.1E (respiratory tract irritant)	H335 - May cause respiratory irritation.
6.9B (Repeated exposure)	H373.G - May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Hazard information

Pictograms and Signal Words



Danger

Hazard statements:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Precautionary statements:

P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
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+P341	IF INHALED: If breathing is difficult, 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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see supplementary instructions on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use a dry powder fire extinguisher for extinction.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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: MAPEFLOOR FINISH 451 parte B

Hazardous components within the meaning of HSNO Act and related classification

Quantity	Name	Ident. Numb.	Classification
≥50 - <75 %	hexamethylene diisocyanate, oligomers	CAS:28182-81-2 EC:931-274-8	6.1D (inhalation), H332; 6.5B, H317; 6.1E (respiratory tract irritant), H335
≥20 - <25 %	2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol	CAS:164250-92-4	6.1D (inhalation), H332; 6.5B, H317; 6.1E (respiratory tract irritant), H335
≥10 - <20 %	o-xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	3.1C, H226; 6.1E (aspiration), H304; 6.9B (Repeated exposure), H373; 6.1D (dermal), H312; 6.1D (inhalation), H332; 6.3A, H315; 6.4A, H319; 6.1E (respiratory tract irritant), H335
≥2.5 - <5 %	reaction mass of ethylbenzene and m-xylene and p-xylene	EC:905-562-9	3.1C, H226; 6.1D (dermal), H312; 6.1D (inhalation), H332; 6.1E (aspiration), H304; 6.3A, H315; 6.4A, H319; 6.1E (respiratory tract irritant), H335; 6.9B (Repeated exposure), H373
≥0.1 - <0.25 %	hexamethylene-di-isocyanate	CAS:822-06-0 EC:212-485-8 Index:615-011-00-1	6.1A (inhalation), H330; 6.5A, H334; 6.3A, H315; 6.4A, H319; 6.5B, H317; 6.1E (respiratory tract irritant), H335

Section 4. First aid measures

Description of necessary first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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).

Most important symptoms/effects, acute and delayed

Eye irritation
Eye damages
Skin Irritation
Erythema

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

In case of fire: Use a dry powder fire extinguisher for extinction.

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Environmental precautions

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

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Methods and materials for containment and cleaning up

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

Wash with plenty of water.

Section 7. Handling and storage

Precautions for safe handling

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

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

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

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

Section 8. Exposure controls/personal protection

Workplace Exposure Standards

Biological Exposure Index

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
1330-20-7	o-xylene	1,5	GGCREAT	Urine	Methyl uric Acid	End of turn
822-06-0	hexamethylene-di-isocyanate	15	MICROGGCREAT	Urine	1,6-Hexamethylenediamine with hydrolysis	End of turn

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
hexamethylene diisocyanate, oligomers	28182-81-2	0,127	Fresh Water		
		0,0127	Marine water		
		1,27	Intermittent release		
		266700	Freshwater sediments		
		53200	Soil		
o-xylene	1330-20-7	0,327	Fresh Water		
		0,327	Marine water		
		12,46	Freshwater sediments		
		12,46	Marine water sediments		
		2,31	Soil		
		6,58	Microorganisms in sewage treatments		
		0,32	Intermittent release		
reaction mass of ethylbenzene and m-xylene and p-xylene		0,32	Fresh Water		
		0,32	Intermittent release		
		0,32	Marine water		

		12,46 mg/kg	Freshwater sediments
		12,46 mg/kg	Marine water sediments
		2,31 mg/kg	Soil
		6,58 mg/kg	Microorganisms in sewage treatments
hexamethylene-di-isocyanate	822-06-0	0,0774 mg/l	Fresh Water
		0,00774 mg/l	Marine water
		0,01334 mg/kg	Freshwater sediments
		0,001334 mg/kg	Marine water sediments
		0,774 mg/l	Intermittent release
		0,0026 mg/kg	Soil
		8,42 mg/l	Microorganisms in sewage treatments

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
hexamethylene diisocyanate, oligomers	28182-81-2	1 mg/m3			Human Inhalation	Short Term, local effects	
		0,5 mg/m3			Human Inhalation	Long Term, local effects	
o-xylene	1330-20-7	289 mg/m3		174 mg/m3	Human Inhalation	Short Term, local effects	
		289 mg/m3		174 mg/m3	Human Inhalation	Short Term, systemic effects	
		180 mg/kg		108 mg/kg	Human Dermal	Long Term, systemic effects	
		77 mg/m3		14,8 mg/m3	Human Inhalation	Long Term, systemic effects	
				1,6 mg/kg	Human Oral	Long Term, systemic effects	
reaction mass of ethylbenzene and m-xylene and p-xylene		289 mg/m3		174 mg/m3	Human Inhalation	Short Term, systemic effects	
		180 mg/kg		108 mg/kg	Human Dermal	Long Term, systemic effects	
		77 mg/m3		14,8 mg/m3	Human Inhalation	Long Term, systemic effects	
				1,6 mg/kg	Human Oral	Long Term, systemic effects	
hexamethylene-di-isocyanate	822-06-0	0,07 mg/m3			Human Inhalation	Short Term, systemic effects	

0,07 mg/m3	Human Inhalation	Short Term, local effects
0,035 mg/m3	Human Inhalation	Long Term, systemic effects
0,035 mg/m3	Human Inhalation	Long Term, local 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:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

Section 9. Physical and chemical properties

Physical state: Liquid

Appearance and colour: liquid transparent

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 24 °C (75 °F)

Flammability (Solid, Gas): N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour pressure: N.A.

Vapour density: N.A.

Relative density: 1.10 g/cm³

Solubility in water: Soluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Kinematic viscosity: N.A.

Particle characteristics: No Data Available

Viscosity: 540.00 cPs

Section 10. Stability and reactivity

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

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:

hexamethylene diisocyanate, oligomers	a) acute toxicity	LD50 Oral Rat > 2500 mg/kg
		LD50 Skin Rat > 2000 mg/kg
		LD50 Skin Rabbit > 2000 mg/kg
		LC50 Inhalation Rat = 0,39 mg/l 4h
	h) STOT-single exposure	NOAEL Inhalation Vapour Rat = 3 mg/m ³
i) STOT-repeated exposure	NOAEL Inhalation Vapour Rat = 3,3 mg/l	
2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol	a) acute toxicity	LD50 Oral Rat > 2500 mg/kg
		LD50 Skin Rat > 2000 mg/kg
		LC50 Inhalation Rat = mg/l 4h
o-xylene	a) acute toxicity	LD50 Oral Rat = 3523 mg/kg
		LC50 Inhalation Rat = 6700 mg/l 4h
		LD50 Skin Rabbit = 2000 mg/kg
	e) germ cell mutagenicity	NOAEL Inhalation Rat > 2000 ppm
	f) carcinogenicity	NOAEL Oral Rat = 500 mg/kg
		NOAEL Oral Rat = 1000 mg/kg
	g) reproductive toxicity	NOAEL Inhalation Rat = 500 ppm
reaction mass of ethylbenzene and m-xylene and p-xylene	a) acute toxicity	LD50 Oral Mouse = 5627 mg/kg
		LD50 Skin Rabbit > 5000 ml/kg
		LC50 Inhalation Rat = 6700 ppm 4h
	g) reproductive toxicity	NOAEL Rat > 500 ppm
hexamethylene-diisocyanate	a) acute toxicity	LD50 Oral Rat = 959 mg/kg
		LD50 Skin Rat > 7000 mg/kg
		LC50 Inhalation Rat = 0,124 mg/l 4h
	f) carcinogenicity	NOAEC Inhalation Rat = 0,164 ppm
	i) STOT-repeated exposure	NOAEC Inhalation Rat = 0,005 ppm

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
- 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

Quantity	Component	Ident. Numb.	Ecotox Infos
>=50 - <75 %	hexamethylene diisocyanate, oligomers	CAS: 28182-81-2 - EINECS: 931-274-8	a) Aquatic acute toxicity : LC50 Fish = 8,9 mg/L a) Aquatic acute toxicity : EC50 Daphnia = 127 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 1000 mg/L 72
>=20 - <25 %	2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol	CAS: 164250-92-4	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 1000 mg/L 72 - DIN 38412
>=10 - <20 %	o-xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia = 3,82 mg/L 48 a) Aquatic acute toxicity : LC50 Fish = 2,6 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 2,2 mg/L 72 c) Bacteria toxicity : EC50 = 96 mg/L 24 b) Aquatic chronic toxicity : NOEC Fish > 1,3 mg/L b) Aquatic chronic toxicity : NOEC Daphnia = 1,57 mg/L
>=2.5 - <5 %	reaction mass of ethylbenzene and m-xylene and p-xylene	EINECS: 905-562-9	a) Aquatic acute toxicity : LC50 Fish = 2,6 mg/L 96 b) Aquatic chronic toxicity : NOEC Fish > 1,3 mg/L b) Aquatic chronic toxicity : NOEC Daphnia = 1,57 mg/L
>=0.1 - <0.25 %	hexamethylene-di-isocyanate	CAS: 822-06-0 - EINECS: 212-485-8 - INDEX: 615-011-00-1	a) Aquatic acute toxicity : LC50 Fish = 22 mg/L 96 c) Bacteria toxicity : EC50 = 842 mg/L 3 a) Aquatic acute toxicity : EC50 Algae > 77,4 mg/L b) Aquatic chronic toxicity : NOEC Algae = 11,7 mg/L 72

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

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Special precautions to be taken during disposal

No Data Available

Section 14. Transport information

UN number

1263

UN proper shipping name

NZS-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED 68781 213.213.127.242 MATERIAL (including paint thinning or reducing compound)

ADR-Shipping Name: PAINT or PAINT RELATED MATERIAL

IATA-Technical name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

IMDG-Technical name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

Transport hazard class(es)

NZS-Class: 3

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

Packing group, if applicable

NZS-Packing Group: III

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

Special precautions for user

NZS-Subsidiary risks: -

NZS-Special Dispositions: 163 223

Road and Rail (ADR-RID):

ADR-Label: 3

ADR-Hazard identification number: NA

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subrisk: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subrisk: -

IMDG-Special Provisions: 163 223 367 955

IMDG-EMS: F-E, S-E

Section 15. Regulatory information**HSNO Approval**

HSNO approval number and group standard title:

HSR002662 - Surface Coatings and Colourants (Flammable) Group Standard 2006

HSNO Controls**Certified 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).

Section 16. Other information

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Code	Description
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure .
H373	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

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

Code	Description
3.1C	Flammable liquid - medium hazard.
6.1A (inhalation)	Substances that are acutely toxic - Fatal (inhalation).
6.1D (dermal)	Substances that are acutely toxic - Harmful (dermal).
6.1D (inhalation)	Substances that are acutely toxic - Harmful (inhalation).
6.1E (aspiration)	Aspiration hazard.
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.
6.5A	Substances that are respiratory sensitisers.
6.5B	Substances that are contact sensitisers.
6.9B (Repeated exposure)	Substances that are harmful to human target organs or systems (Repeated exposure).

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.