Safety Data Sheet
ADESILEX G 19 comp.A
Safety Data Sheet dated: 3/5/2017 - version 1
Date of first edition: 3/5/2017

1. Identification

GHS Product identifier

Mixture identification:

Trade name: ADESILEX G 19 comp.A

Trade code: 904103

Recommended use of the chemical and restrictions on use

Recommended use: Epoxy-polyurethane adhesive

Uses advised against: Data not available.

Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

T. +61 7 32765000 (Mon-Fri 8am to 5pm)

F. +61 7 32765076

Emergency phone number

Australian Poisons Information Centre hotline 24 Hour Service 13 11 26

Police of Fire Brigade 000

2. Hazard identification

Classification of the Hazardous chemical

Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1A	May cause an allergic skin reaction.
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words

Warning

Hazard statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1	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.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321.A	Specific treatment (see supplementary instructions on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

P363	Wash contaminated clothing before reuse.
P501.B	Dispose of contents in accordance with local regulation.

Other hazards which do not result in a classification

Other Hazards: No other hazards

3. Composition/information on ingredients

Substances

no data available

Mixtures

Mixture identification: ADESILEX G 19 comp.A

Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:

Quantity	Name	Ident. Numb.	Classification
7,60 %	titanium dioxide	CAS:13463-67-7 EC:236-675-5	
7,580 %	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	CAS:25068-38-6 EC:500-033-5 Index:603-074-00-8	Eye Irrit. 2A; Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 2, H319, H315, H317, H411
1,8600 %	reaction mass of ethylbenzene and m-xylene and p-xylene	EC:905-562-9	Flam. Liq. 3; Acute Tox. 4; Acute Tox. 4; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; STOT RE 2, H226, H312, H332, H304, H315, H319, H335, H373
1,8600 %	xilene (COV-H)	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3; Asp. Tox. 1; STOT RE 2; Acute Tox. 4; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3, H226, H304, H373, H312, H332, H315, H319, H335
0,786240 %	4-nonilfenolo, ramificato (sogg.PIC) - candidate list	CAS:84852-15-3 EC:284-325-5 Index:601-053-00-8	Repr. 2; Skin Corr. 1B; Aquatic Acute 1; Aquatic Chronic 1; Acute Tox. 4, H361fd, H314, H400, H410, H302
0,1891 %	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS:68609-97-2 EC:271-846-8 Index:603-103-00-4	Skin Irrit. 2; Skin Sens. 1, H315, H317
0,1891 %	bisphenol F - epoxy resin	CAS:9003-36-5 EC:500-006-8	Skin Irrit. 2; Skin Sens. 1A; Aquatic Chronic 2, H315, H317, H411

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 opthalmologist 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.

Symptoms causedby exposure

Eye irritation

Eye damages

Skin Irritation

Erythema

Medical attention and special treatment

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

5. Fire-fighting measures

Suitable extinguishing media

None in particular.

Water.

Carbon dioxide (CO2).

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: no data available

Explosive properties: no data available

Oxidizing properties: no data available

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

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.

7. Handling and storage

Precautions for safe handling

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

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.

Contamined 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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. Exposure controls/personal protection

Control parameters – exposure standards, biological monitoring

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
titanium dioxide	ACGIH	--None--		10					A4 - LRT irr
o-xylene	EU	--None--		221	50	442	100		Skin
	ACGIH	--None--			100		150		A4, BEI - URT and eye irr, CNS impair

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
titanium dioxide	13463-67-7	0,184 mg/l	Fresh Water		
		100 mg/kg	Soil		
		100 mg/l	Microorganisms in sewage treatments		
		0,0184 mg/l	Marine water		
		100 mg/kg	Marine water sediments		
		1000 mg/kg	Freshwater sediments		
		0,193 mg/l	DXE2H_008		
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	0,006 mg/l	Fresh Water		
		0,0006 mg/l	Marine water		
		0,0627 mg/kg	Freshwater sediments		
		0,00627 mg/kg	Marine water sediments		
reaction mass of ethylbenzene and m-xylene and p-xylene		0,32 mg/l	Fresh Water		

		0,32 mg/l	DXE2H_008
		0,32 mg/l	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
o-xylene	1330-20-7	0,327 mg/l	Fresh Water
		0,327 mg/l	Marine water
		12,46 mg/kg	Freshwater sediments
		12,46 mg/kg	Marine water sediments
		2,31 mg/kg	Soil
		6,58 mg/l	Microorganisms in sewage treatments
		0,32 mg/l	DXE2H_008
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	0,00072 mg/l	Marine water
		0,0072 mg/l	Fresh Water
		66,77 mg/kg	Freshwater sediments
		6,677 mg/kg	Marine water sediments
		80,12 mg/kg	Soil
		10 mg/l	Microorganisms in sewage treatments
bisphenol F - epoxy resin	9003-36-5	10 mg/l	Microorganisms in sewage treatments
		0,003 mg/l	Fresh Water
		0,294 mg/kg	Freshwater sediments
		0,0003 mg/l	Marine water
		0,0294 mg/kg	Marine water sediments
		0,237 mg/kg	Soil

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
titanium dioxide	13463-67-7	10 DXE2H_001	10 DXE2H_003		Human Inhalation	Long Term, local effects	
				700 mg/kg	Human Oral	Long Term, systemic effects	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	8,3 mg/kg			Human Dermal	Short Term, systemic effects	
		12,25 DXE2H_001			Human Inhalation	Short Term, systemic effects	
		8,3 mg/kg			Human Dermal	Long Term, systemic effects	
		12,25 DXE2H_001			Human Inhalation	Long Term, systemic effects	
				3,571 mg/kg	Human Dermal	Short Term, systemic effects	
				0,75 mg/kg	Human Oral	Short Term, systemic effects	
				3,571 mg/kg	Human Dermal	Long Term, systemic effects	
				0,75 mg/kg	Human Oral	Long Term, systemic effects	
reaction mass of ethylbenzene and m-xylene and p-xylene		289 DXE2H_001		174 DXE2H_005	Human Inhalation	Short Term, systemic effects	
		180 mg/kg		108 mg/kg	Human Dermal	Long Term, systemic effects	
		77 DXE2H_001		14,8 DXE2H_005	Human Inhalation	Long Term, systemic effects	

			1,6 mg/kg	Human Oral	Long Term, systemic effects
o-xylene	1330-20-7	289 DXE2H_001	174 DXE2H_005	Human Inhalation	Short Term, local effects
		289 DXE2H_001	174 DXE2H_005	Human Inhalation	Short Term, systemic effects
		180 mg/kg	108 mg/kg	Human Dermal	Long Term, systemic effects
		77 DXE2H_001	14,8 DXE2H_005	Human Inhalation	Long Term, systemic effects
			1,6 mg/kg	Human Oral	Long Term, systemic effects

Appropriate engineering controls

no data available

Individual protection measures, such as 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:

no data available

9. Physical and chemical properties

Color: various

Appearance: Paste

Odour: characteristic

Odour threshold: no data available

pH: no data available

Melting point / freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: no data available

Evaporation rate: no data available

Flammability (Solid, Gas): no data available

Upper/lower flammability or explosive limits: no data available

Vapour pressure: no data available

Vapour density: no data available

Relative density: no data available

Solubility in water: Insoluble

Solubility in oil: Soluble

Partition coefficient (n-octanol/water): no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity: no data available

Specific heat value: no data available

Saturated vapour concentration: no data available

Release of invisible flammable vapours and gases: no data available

Particle size: no data available

Size distribution: no data available

Shape and aspect ratio: no data available

Crystallinity: no data available

Dustiness: no data available

Surface area: no data available

Degree of aggregation or agglomeration, and dispersibility: no data available

Biodurability or biopersistence: no data available

Surface coating or chemistry: no data available

VOC (Volatile Organic Compound) : 14,6 (A+B) (Rule 1168) g/L

10. Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

no data available

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

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:

titanium dioxide	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg	
		LD50 Skin Rat > 2000 mg/m3	
		LC50 Inhalation Rat = 4,26 mg/l 4h	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	i) STOT-repeated exposure	DXE2H_001 Oral Rat = 50 mg/kg	
		DXE2H_001 Skin Rat = 100 mg/kg	
	a) acute toxicity	LD50 Oral Rat > 15000 mg/kg	riferito a prodotto di reazione: bisfenolo-A-epicloridrina;resine epossidiche
		LD50 Skin Rabbit > 23000 mg/kg	riferito a prodotto di reazione: bisfenolo-A-epicloridrina;resine epossidiche
xilene (COV-H)	f) carcinogenicity	DXE2H_001 Oral Rat = 500 mg/kg	
		DXE2H_001 Oral Rat = 1000 mg/kg	
	g) reproductive toxicity	DXE2H_001 Inhalation Rat = 500 ppm	
	e) germ cell mutagenicity	DXE2H_001 Inhalation Rat > 2000 ppm	
	l) chronic toxicity	DXE2H_001 Oral Rat = 250 mg/kg	
	a) acute toxicity	LD50 Oral Rat = 3523 mg/kg	
		LD50 Inhalation Rat = 6700 mg/l 4h	
reaction mass of ethylbenzene and m-xylene and p-xylene	g) reproductive toxicity	DXE2H_001 Rat > 500 ppm	
	l) chronic toxicity	DXE2H_001 Oral Rat = 250 mg/kg	
	a) acute toxicity	LD50 Oral Mouse = 5627 mg/kg	
		LD50 Skin Rabbit > 5000 ml/kg	
		LC50 Inhalation Rat = 6700 ppm 4h	
4-nonilfenolo, ramificato (sogg.PIC) - candidate list	d) respiratory or skin sensitisation	Skin Sensitization Rat Negative	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg	
		LD50 Skin Rabbit 2140 mg/kg	
bisphenol F - epoxy resin	i) STOT-repeated exposure	DXE2H_001 Oral = 250 mg/kg	
	a) acute toxicity	LD50 Oral Rat > 10000 mg/kg	
		LD50 Skin Rat > 2000 mg/kg	
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg	
		LD50 Skin Rabbit > 4500 mg/kg	
		LD50 Oral Rat = 17100 mg/kg	

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

12. Ecological information

Ecotoxicity

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

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
5-10 %	titanium dioxide	CAS: 13463-67-7 - EINECS: 236-675-5	a) Aquatic acute toxicity : LC50 Fish > 10000 mg/L 96
			e) Plant toxicity : NOEC = 100000 mg/kg
			d) Terrestrial toxicity : NOEC = 10000 mg/kg 672
5-10 %	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	CAS: 25068-38-6 - EINECS: 500-033-5 - 67-548-EC: 603-074-00-8	a) Aquatic acute toxicity : LC50 Fish > 2 mg/L 96
			a) Aquatic acute toxicity : EC50 Daphnia > 1,8 mg/L 48
			a) Aquatic acute toxicity : LC50 Algae > 11 mg/L 72
			a) Aquatic acute toxicity : LC50 Daphnia = 1,3 mg/L 96
			b) Aquatic chronic toxicity : NOEC Daphnia = 0,3 mg/L
1-2.5 %	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
1-2.5 %	xilene (COV-H)	CAS: 1330-20-7 - EINECS: 215-535-7 - 67-548-EC: 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
0.1-0.25 %	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS: 68609-97-2 - EINECS: 271-846-8 - 67-548-EC: 603-103-00-4	a) Aquatic acute toxicity : LC50 Fish > 5000 mg/L 96
			a) Aquatic acute toxicity : EC50 Daphnia = 7,2 mg/L 48
			a) Aquatic acute toxicity : EC50 Algae = 844 mg/L 72
			a) Aquatic acute toxicity : LC50 Fish > 1800 mg/L 96
0.1-0.25 %	bisphenol F - epoxy resin	CAS: 9003-36-5 - EINECS: 500-006-8	a) Aquatic acute toxicity : LC50 Fish = 2,54 mg/L 96
			a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 48
			a) Aquatic acute toxicity : EC50 Algae > 1,8 mg/L 72
			b) Aquatic chronic toxicity : NOEC Daphnia = 0,3 mg/L - 21 d

Persistence and degradability

no data available

Bioaccumulative potential

Component	Bioaccumulation	Test	Duration	Value
4-nonilfenolo, ramificato (sogg.PIC) - candidate list	Not bioaccumulative	BCF - Bioconcentrantion factor	28 d	740

Mobility in soil

no data available

Other adverse effects

no data available

13. Disposal considerations

Disposal methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

UN Number

no data available

UN Proper Shipping Name

no data available

Transport hazard class(es)

no data available

Packing group, if applicable

no data available

Environmental hazards

no data available

Special precautions for user

no data available

Additional Information

no data available

HazChem Code/Emergency Action code

no data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

AICS: all components are listed

16. Other information

Code	Description
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure .
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.
H412	Harmful to aquatic life with long lasting effects.

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:

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ATE: Acute Toxicity Estimate
BCF: Biological Concentration Factor
BEI: Biological Exposure Index
BOD: Biochemical Oxygen Demand
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CAV: Poison Center
CE: European Community
CLP: Classification, Labeling, Packaging.
CMR: Carcinogenic, Mutagenic and Reprotoxic
COD: Chemical Oxygen Demand
COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

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