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SECTION 1: Identification of the su	ubstance/mixture and of the company/undertaking	
1.1 Product identifier		
	FIRESHIELD 920 KS Base	
.2 Relevant identified uses of th	e substance or mixture and uses advised against	
.2.1 Relevant uses		
	Fire retardant coating	
2.2 Lloss advised against		
.2.2 Uses advised against	None known.	
	NOLE KLOWII.	
.3 Details of the supplier of the	safety data sheet	
Company	Fireshield Coatings, a division of FPC Limited Partnership	
	13 North Concourse, Beaumaris 3193 Victoria / AUSTRALIA	
	Phone 1800 092 097 Homepage www.fireshieldcoatings.com	
	E-mail info@fireshieldcoatings.com	
Address enquiries to		
Technical information	info@fireshieldcoatings.com	
Safety Data Sheet	sdb@chemiebuero.de (No dispatch of safety data sheets)	
	Safety data sheets are available from the supplier.	
.4 Emergency telephone number	r	
Advisory body	Poisons Information Centre 13 11 26 (24h)	
SECTION 2: Hazards identification		

2.1 Classification of the substance or mixture

Skin Irrit. 2: H315 Causes skin irritation. Skin Sens. 1: H317 May cause an allergic skin reaction. Eye Dam. 1: H318 Causes serious eye damage. Repr. 2: H361f Suspected of damaging fertility. Carc. 2: H351 Suspected of causing cancer.



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2.2	Label elements			
	Hazard pictograms			
	Signal word	DANGER		
	Contains:	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)	lbisoxirane (15 - < 25	%)
		Reaction products of 2,2-dimethylpropane-1,3-diol with 1-		,
		Melamine (3 - 10%)		
		Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxyme (oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2 phenyleneoxymethylene)]dioxirane (1 - 10%)		
		[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane (3 - 10%)		
		Trimethylolpropan triacrylate (2.5 - < 10%)		
	Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H351 Suspected of causing cancer. H361f Suspected of damaging fertility.		
	Precautionary statements	P201 Obtain special instructions before use. P260 Do not breathe vapours / spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves / protective clothing / eye pr P308+P313 IF exposed or concerned: Get medical advice P305+P351+P338 IF IN EYES: Rinse cautiously with wate contact lenses, if present and easy to do. Continue rinsing P310 Immediately call a POISON CENTER / doctor. P501 Dispose of contents/container in accordance with lo regulation.	e / attention. er for several minutes g.	. Remove
2.3	Other hazards			
	Human health dangers	Contains no ingredients with endocrine-disrupting properti It is essential for pregnant women to avoid inhaling the pro contact with the skin.		come in
	Environmental hazards	Does not contain any PBT or vPvB substances.		
	Other hazards	Further hazards were not determined with the current level	el of knowledge.	

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable



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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
15 - < 25	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
	CAS: 1675-54-3
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Aquatic Chronic 2: H411
	SCL [%]: >= 5: Eye Irrit. 2: H319, >= 5: Skin Irrit. 2: H315
10 - 20	Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Aquatic Chronic 3: H412
5 - < 15	Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate
	CAS: 68937-40-6
	GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 2: H411, M-Factor (acute): 1, M-Factor (chronic): 1
3 - 10	Melamine
	CAS: 108-78-1
	GHS/CLP: Carc. 2: H351 - Repr. 2: H361f - STOT RE 2: H373
1 - 10	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411 - EUH205
3 - 10	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane
	CAS: 2530-83-8
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 3: H412
2.5 - < 10	Trimethylolpropan triacrylate
	CAS: 15625-89-5
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Carc. 2: H351 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1
1 - 5	1,2,3-Propanetriol, glycidyl ethers
	CAS: 90529-77-4
	GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1	Description of first aid measures	
	General information	Take off contaminated clothing and wash before reuse.
	Inhalation	Remove person to fresh air and keep comfortable for breathing. In the event of symptoms seek medical treatment.
	Skin contact	In case of contact with skin wash off immediately with soap and water. Seek medical advice immediately.
	Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.
	Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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Version 2.0 Date printed 04.07.2023, Revision 04.07.2023 Page 4 / 20 SECTION 5: Fire-fighting measures 5.1 Extinguishing media Suitable extinguishing media Foam. Dry powder. Water spray jet. Carbon dioxide. Extinguishing media that must not Full water jet. be used Special hazards arising from the substance or mixture 5.2 Risk of formation of toxic pyrolysis products. 5.3 Advice for firefighters Use self-contained breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations. Collect contaminated firefighting water separately, must not be discharged into the drains. Hazchem Code SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Use breathing apparatus if exposed to vapours. High risk of slipping due to leakage/spillage of product. Use personal protective equipment (protective gloves, safety glasses, protective clothing). 6.2 **Environmental precautions** Do not discharge into the drains/surface waters/groundwater. Methods and material for containment and cleaning up 6.3 Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations. 6.4 Reference to other sections See SECTION 8+13 SECTION 7: Handling and storage Precautions for safe handling 7.1 Use only in well-ventilated areas. Provide suitable vacuuming at the processing area. Do not eat, drink, smoke or take drugs at work. Take off contaminated clothing and wash before reuse. Use barrier skin cream. After worktime and before work breaks the affected skin areas must be thoroughly cleaned.



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7.2 Conditions for safe storage, including any incompatibilities

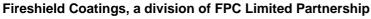
Keep only in original container. Prevent penetration into the ground.

Do not store together with oxidizing agents. Do not store together with food and animal food/diet.

Keep container tightly closed. Keep container in a well-ventilated place. Keep in a cool place. Store in a dry place. Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2



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www.chemiebuero.de, Phone +49 (0)941-646 353-0, 230622

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (AU)

not applicable

DNEL

bstance
elamine, CAS: 108-78-1
dustrial, dermal, Acute - systemic effects, 117 mg/kg
dustrial, dermal, Long-term - systemic effects, 11.8 mg/kg
dustrial, inhalative, Long-term - systemic effects, 8.3 mg/m ³
dustrial, inhalative, Acute - systemic effects, 82.3 mg/m ³
neral population, oral, Long-term - systemic effects, 0.42 mg/kg
neral population, dermal, Long-term - systemic effects, 4.2 mg/kg
neral population, inhalative, Long-term - systemic effects, 1.5 mg/m ³
(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
dustrial, inhalative, Long-term - systemic effects, 70.5 mg/m ³
dustrial, dermal, Long-term - systemic effects, 10 mg/kg bw/day
neral population, oral, Long-term - systemic effects, 5 mg/kg bw/day
neral population, dermal, Long-term - systemic effects, 5 mg/kg bw/day
neral population, inhalative, Long-term - systemic effects, 17 mg/m ³
methylolpropan triacrylate, CAS: 15625-89-5
dustrial, dermal, Long-term - systemic effects, 404 mg/kg bw/day
dustrial, inhalative, Long-term - systemic effects, 17.1 mg/m ³
2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3
dustrial, inhalative, Long-term - systemic effects, 4.93 mg/m ³ (AF=12.5)
dustrial, dermal, Long-term - systemic effects, 0.75 mg/kg bw/d (AF=100)
neral population, oral, Long-term - systemic effects, 0.5 mg/kg bw/day
neral population, dermal, Long-term - systemic effects, 89.3 µg/kg bw/d (AF=200)
neral population, inhalative, Long-term - systemic effects, 0.87 mg/m ³
eaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane
dustrial, dermal, Long-term - systemic effects, 6.66 mg/kg bw/day
dustrial, inhalative, Long-term - systemic effects, 3.29 mg/m ³
neral population, oral, Long-term - systemic effects, 0.333 mg/kg bw/day
neral population, dermal, Long-term - systemic effects, 3.3 mg/kg bw/day
neral population, inhalative, Long-term - systemic effects, 0.58 mg/m ³
action mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- nethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
dustrial, dermal, Acute - local effects, 8.3 μg/cm ²
dustrial, dermal, Long-term - systemic effects, 104.15 mg/kg bw/day
dustrial, inhalative, Long-term - systemic effects, 29.39 mg/m ³
neral population, inhalative, Long-term - systemic effects, 8.7 mg/m ³
neral population, dermal, Long-term - systemic effects, 62.5 mg/kg bw/day
neral population, oral, Long-term - systemic effects, 6.25 mg/kg bw/day
eaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphe osphate, CAS: 68937-40-6
dustrial, inhalative, Long-term - systemic effects, 7.58 mg/m ³



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	Industrial, dermal, Long-term - systemic effects, 10.75 mg/kg bw/day
	general population, oral, Long-term - systemic effects, 5.375 mg/kg bw/day
	general population, inhalative, Long-term - systemic effects, 1.87 mg/m ³
	general population, dermal, Long-term - systemic effects, 5.375 mg/kg bw/day
PNEC	general population, dermal, cong-term - systemic enects, 3.373 mg/kg bwday
FNEC	Cubatanaa
	Substance
	Melamine, CAS: 108-78-1
	freshwater, 0.51 mg/L
	seawater, 0.051 mg/L
	sediment (freshwater), 2.524 mg/kg sediment dw
	sewage treatment plants (STP), 200 mg/L
	soil, 0.206 mg/kg soil dw
	sediment (seaater), 0.252 mg/kg sediment dw
	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
	sewage treatment plants (STP), 8.2 mg/L
	soil, 0.063 mg/kg soil dw
	sediment (freshwater), 1.6 mg/kg sediment dw
	freshwater, 0.45 mg/L
	sediment (seaater), 0.16 mg/kg sediment dw
	seawater, 0.045 mg/L
	Trimethylolpropan triacrylate, CAS: 15625-89-5
	soil, 0.003 mg/kg soil dw
	freshwater, 0.87 µg/L
	oral (food), 10 mg/kg
	sediment (seaater), 0.002 mg/kg sediment dw
	seawater, 0.087 µg/L
	sewage treatment plants (STP), 6.25 mg/L
	sediment (freshwater), 0.017 mg/kg sediment dw
	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3
	sediment (freshwater), 0.341 mg/kg sediment dw
	seawater, 0.001 mg/L (AF=500)
	sewage treatment plants (STP), 10 mg/L (AF=10)
	oral (food), 11 mg/kg food (AF=90)
	soil, 0.065 mg/kg soil dw
	sediment (seaater), 0.034 mg/kg sediment dw
	freshwater, 0.006 mg/L (AF=50)
	Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane
	sediment (freshwater), 0.248 mg/kg sediment dw
	freshwater, 47 µg/L
	sediment (seaater), 0.0248 mg/kg sediment dw
	soil, 21.9 μg/kg soil dw
	seawater, 4.7 µg/L
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
	sediment (freshwater), 0.294 mg/kg sediment dw
	seument (neshwater), 0.294 mg/kg seument dw
	sediment (reshwater), 0.294 mg/kg sediment dw



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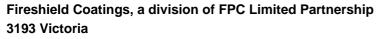
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freshwater, 0.003 mg/L	
soil, 0.237 mg/kg soil dw	
Reaction mass of p-t-butylp phosphate, CAS: 68937-40	henyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl -6
oral (food), 23.89 mg/kg foo	d
freshwater, 0.004 mg/L	
seawater, 0 mg/L	
sediment (freshwater), 3.12	mg/kg sediment dw
sediment (seaater), 0.312 m	ng/kg sediment dw
soil, 0.246 mg/kg soil dw	

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0.4mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact during pregnancy/while nursing.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.



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SEC	SECTION 9: Physical and chemical properties		
9.1	Information on basic physical and chemical properties		
	Physical state	liquid	
	Form	liquid	
	Color	grey	
	Odor	characteristic	
	Odour threshold	not applicable	
	pH-value	not applicable	
	pH-value [1%]	not applicable	
	Boiling point [°C]	not determined	
	Flash point [°C]	not applicable	
	Flammability	no	
	Lower explosion limit	not applicable	
	Upper explosion limit	not applicable	
	Oxidising properties	no	
	Vapour pressure/gas pressure [kPa]	not determined	
	Density [g/cm ³]	1.25-1.38 (20 °C / 68,0 °F)	
	Relative density	not determined	
	Bulk density [kg/m³]	not applicable	
	Solubility in water	insoluble	
	Solubility other solvents	No information available.	
	Partition coefficient [n-octanol/water]	not determined	
	Kinematic viscosity	15000 - 26000 mPas (20 °C)	
	Relative vapour density	not determined	
	Evaporation speed	not determined	
	Melting point [°C]	not determined	
	Auto-ignition temperature [°C]	not self-igniting	
	Decomposition temperature [°C]	not applicable	
	Particle characteristics	not applicable	
9.2	Other information		
		none	

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents, strong acids and alkalies.

10.4 Conditions to avoid

See SECTION 7



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10.5 Incompatible materials

Oxidizing agent Acids Alkalies

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product ATE-mix, oral, > 2000 mg/kg

Substance	-
Melamine, CAS: 108-78-1	
LD50, oral, Rat (male), 3161 mg/kg	-
LD50, oral, Rat (female), 3828 mg/kg	-
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8	
LD50, oral, Rat, 8025 mg/kg (OECD 401)	
Trimethylolpropan triacrylate, CAS: 15625-89-5	
LD50, oral, Rabbit, ca. 5170 mg/kg	-
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3	
LD50, oral, Rat, > 5000 mg/kg	
Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane	
LD50, oral, Rat, 3595 mg/kg	
Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane	
LD50, oral, Rat, > 5000 mg/kg	-
1,2,3-Propanetriol, glycidyl ethers, CAS: 90529-77-4	
LD50, oral, Rat, > 5000 mg/kg	
Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate, CAS: 68937-40-6	

LD50, oral, Rat, 5000 mg/kg

Acute dermal toxicity

 Product

 ATE-mix, dermal, > 2000 mg/kg

 Substance

 Melamine, CAS: 108-78-1

 LD50, dermal, Rat, > 2000 mg/kg

 [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8

 LD50, dermal, Rabbit, 4250 mg/kg (OECD 402)

Trimethylolpropan triacrylate, CAS: 15625-89-5

LD50, dermal, Rabbit, > 5000 mg/kg

2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3

LD50, dermal, Rabbit, > 5000 mg/kg

Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane

LD50, dermal, Rat, > 2000 mg/kg

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane

LD50, dermal, Rat, > 2000 mg/kg

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate, CAS: 68937-40-6

LD50, dermal, Rabbit, > 2000 mg/kg



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Acute inhalational toxicity

Product

ATE-mix, inhalativ (vapour), > 20 mg/l 4h

Substance

Melamine, CAS: 108-78-1

LC50, inhalative, Rat, 5.19 mg/l, OECD 403, 4h

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8

LC50, inhalativ (mist), Rat, > 5.3 mg/l (4 h) (OECD 403)

Skin corrosion/irritation

Irritant

Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method

Substance
Melamine, CAS: 108-78-1
Rabbit, OECD 404, non-irritating
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
dermal, non-irritating
Trimethylolpropan triacrylate, CAS: 15625-89-5
dermal, irritant
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3
dermal, irritant
Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane
dermal, irritant
Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
Human, Study, irritant
Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate, CAS: 68937-40-6
dermal, non-irritating

Serious eye damage/irritation

Risk of serious damage to eyes.

Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method

Substance	
Melamine, CAS: 108-7	78-1
Eye, non-irritating	
[3-(2,3-Epoxypropoxy)	propyl]trimethoxysilane, CAS: 2530-83-8
Eye, corrosive	
Trimethylolpropan tria	crylate, CAS: 15625-89-5
Eye, irritant	
2,2'-[(1-Methylethylide	ene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3
Eye, irritant	
Reaction products of 2	2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane
Eye, irritant	
	-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- noxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
Eye, Rabbit, Study, no	on-irritating
Reaction mass of p-t-l	butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl



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phosphate, CAS: 68937-40-6	
Eye, non-irritating	

Respiratory or ski	n sensitisation	May cause an allergic skin reaction. Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method
	Substance	
	Melamine, CAS: 1	08-78-1
	inhalative, non-ser	nsitizing
	Guinea pig, OECE	0 406, non-sensitizing
	[3-(2,3-Epoxyprop	oxy)propyl]trimethoxysilane, CAS: 2530-83-8
	dermal, non-sensi	tizing
	Trimethylolpropan	triacrylate, CAS: 15625-89-5
	dermal, sensitising]
	2,2'-[(1-Methylethy	/lidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3
	dermal, sensitising]
	Reaction products	of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane
	dermal, sensitising]
		2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
	dermal, mouse, St	tudy, sensitising
	Reaction mass of phosphate, CAS:	p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl 68937-40-6
	dermal. non-sensi	tizing

Mutagenicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance	
Melamine, CAS: 108-78-1	
in vivo, negativ	
in vitro, negativ	
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane,	CAS: 2530-83-8
in vitro, The effects observed are not sufficien	t for classification.
Trimethylolpropan triacrylate, CAS: 15625-89-	5
in vivo, no adverse effect observed	
in vitro, no adverse effect observed	
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneox	ymethylene)]bisoxirane, CAS: 1675-54-3
in vivo, no adverse effect observed	
in vitro, The effects observed are not sufficien	t for classification.
Reaction products of 2,2-dimethylpropane-1,3	-diol with 1-chloro-2,3-epoxypropane
in vivo, no adverse effect observed	
	yleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- d [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
Ames-test, adverse effect observed	

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance

Melamine, CAS: 108-78-1



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L	DAEL, oral, Rat, 126 mg/kg bw/day (chronic), adverse effect observed			
Reproduction toxicit	y Suspected of damaging fertility. Based on the available information, the classification criteria Toxicological data of complete product are not available. Calculation method	a are fulfilled.		
- Fertility				
S	ubstance			
M	elamine, CAS: 108-78-1			
N	OAEL, oral, Rat, 89 mg/kg bw/day (subchronic), adverse effect observed			
[3	-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8			
Ν	OAEL, oral, Rat, 1000 mg/kg bw/day (subchronic), no adverse effect observed			
Т	Trimethylolpropan triacrylate, CAS: 15625-89-5			
Ν	NOAEL, oral, Rat, 300 mg/kg bw/day (subacute), no adverse effect observed			
2.	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3			
Ν	NOAEL, oral, Rat, 750 mg/kg bw/day (subchronic), no adverse effect observed, Effect on fertility,			
R	Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane			
Ν	OAEL, oral, Rat, 300 mg/kg bw/day (subacute), no adverse effect observed			
	eaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and methoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenylene		irane	
Ν	OAEL, oral, Rat, 750 mg/kg bw/day, adverse effect observed			
- Development				
s	ubstance			
Ν	elamine, CAS: 108-78-1			
Ν	OAEL, oral, Rabbit, 150 mg/kg bw/day (subacute), no adverse effect observed			
[3	-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8			
	OAEL, oral, Rat, 1000 mg/kg bw/day (subchronic), no adverse effect observed			
Т	imethylolpropan triacrylate, CAS: 15625-89-5			
N	OAEL, oral, Rat, 300 mg/kg bw/day (subacute), no adverse effect observed			
	2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675			
	OAEL, dermal, Rabbit, 300 mg/kg bw/day (subacute), no adverse effect observ xicity,	ved, Effect on devel	opmental	

NOAEL, oral, Rabbit, 180 mg/kg bw/day (subacute), no adverse effect observed, Effect on developmental toxicity,

Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane

NOAEL, oral, Rat, 300 mg/kg bw/day (subacute), no adverse effect observed

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane

NOAEL, oral, 180 mg/kg bw/day, The effects observed are not sufficient for classification.

Specific target organ toxicity -Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. single exposure Toxicological data of complete product are not available. Specific target organ toxicity -Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. repeated exposure Toxicological data of complete product are not available.

Substance
Melamine, CAS: 108-78-1
NOAEL, oral, Rat, 72 mg/kg bw/day (subchronic), adverse effect observed
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
NOAEL, oral, Rat, 1000 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.



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IOAEC, inhalative, Rat, 119 mg/m ³ (subacute), The effects observed are not sufficient for classification.	
rimethylolpropan triacrylate, CAS: 15625-89-5	
IOAEL, dermal, Rabbit, 500 mg/kg bw/day (subacute), no adverse effect observed	
IOAEL, oral, Rat, 173 mg/kg bw/day (subchronic), no adverse effect observed	
,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3	
IOAEL, dermal, Rat, 100 mg/kg bw/day (chronic), The effects observed are not sufficient for classification.	
IOAEL, oral, Rat, 50 mg/kg bw/day (chronic), The effects observed are not sufficient for classification.	
Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane	
IOAEL, oral, Rat, 200 mg/kg bw/day (subacute), no adverse effect observed	
Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- Imethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane	
IOAEL, Rat, 250 mg/kg bw/day, The effects observed are not sufficient for classification.	
	-

Aspiration hazard

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

General remarks

none



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SECTION 12: Ecological information

12.1 Toxicity

Substance
Melamine, CAS: 108-78-1
LC50, (96h), Oncorhynchus kisutch, > 3000 mg/L
EC50, (48h), Daphnia magna, 200 mg/L EPA OPP 72-2
NOEC, (21d), Daphnia magna, >= 11 mg/L OECD 211
ErC50, (96h), Pseudokirchneriella subcapitata, 325 mg/L PRO/FT Algae-AC090-6
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane, CAS: 2530-83-8
LC50, (96h), Cyprinus carpio, 55 mg/l (OECD 203)
EC50, (48h), Daphnia magna, 710 mg/l (OECD 202)
EC50, (96h), Pseudokirchneriella subcapitata, 350 mg/l (OECD 201)
Trimethylolpropan triacrylate, CAS: 15625-89-5
LC50, (96h), Brachidanio rerio, 0.87 mg/L OECD 203
EC50, (48h), Daphnia magna, 19.9 mg/l (RL 79/831/EWG)
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, CAS: 1675-54-3
LC50, (96h), Oncorhynchus mykiss, 1.3 mg/L (OECD 203)
LC50, (96h), fish, 2 mg/L
EC50, (48h), aquatic micro-organisms, 1.8 mg/L
EC50, (48h), Daphnia magna, 2.1 mg/L (OECD 202)
NOEC, (21d), Daphnia magna, 0.3 mg/L (OECD 211)
ErC50, (72h), Algae, 11 mg/L
Reaction products of 2,2-dimethylpropane-1,3-diol with 1-chloro-2,3-epoxypropane
EC50, (48h), Invertebrates, 39 - 57 mg/L
EC50, Daphnia magna, 10 - 100 mg/L OECD 202
Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
EC50, (96h), Leuciscus idus, 2.54 mg/L
EC50, (48h), Daphnia magna, 2.55 mg/L
EC50, (72h), Algae, 1.8 mg/L
Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate, CAS: 68937-40-6
LC50, (96h), fish, 0.8 mg/L
EC50, (48h), Daphnia magna, 0.2 mg/L
NOEC, (21d), Daphnia magna, 0.0399 mg/L
NOEC, (90d), Pimephales promelas, 0.093 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

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12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

None known.

SEC	TION 13: Disposal considerations	
	Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
	Disposal method	Disposal of this product must comply with the requirements of state and local disposal regulations.
	Contaminated packaging	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.
SEC	TION 14: Transport information	
4.1	UN number	
	Transport by land according to ADR/RID	3082
	Inland navigation (ADN)	3082
	Marine transport in accordance with IMDG	3082
	Air transport in accordance with IATA	3082
	Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG)	not applicable



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14.2	UN proper shipping name Transport by land according to	Environmentally hazardous substance, liquid, n.o.s. (Reaction mass of p-t-
	ADR/RID	butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate, Trimethylolpropan triacrylate)
	- Classification Code	M6
	- Label	
	- ADR LQ	51
	- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (-)
	Inland navigation (ADN)	Environmentally hazardous substance, liquid, n.o.s. (Reaction mass of p-t- butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate, Trimethylolpropan triacrylate)
	- Classification Code	M6
	- Label	
	Marine transport in accordance with IMDG	Environmentally hazardous substance, liquid, n.o.s. (Reaction mass of p-t- butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate, Trimethylolpropan triacrylate)
	- EMS	F-A, S-F
	- Label	
	- IMDG LQ	51
	Air transport in accordance with IATA	Environmentally hazardous substance, liquid, n.o.s. (Reaction mass of p-t- butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate, Trimethylolpropan triacrylate)
	- Label	
	Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG)	not applicable
14.3	Transport hazard class(es)	
	Transport by land according to ADR/RID	9 (N)
	Inland navigation (ADN)	9 (N)
	Marine transport in accordance with IMDG	9
	Air transport in accordance with IATA	9
	Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG)	not applicable



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I.4 Packing group Transport by land according to III ADR/RID III Inland navigation (ADN) III Marine transport in accordance with III IMDG III Air transport in accordance with IATA III Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG) Not applicable	
Transport by land according to ADR/RID III Inland navigation (ADN) III Marine transport in accordance with III IMDG III Air transport in accordance with IATA III Australian Code for the Transport of Dangerous Goods by Road & Rail not applicable	
ADR/RID Inland navigation (ADN) III Marine transport in accordance with III IMDG Air transport in accordance with IATA III Australian Code for the Transport of not applicable Dangerous Goods by Road & Rail	
Marine transport in accordance with III IMDG Air transport in accordance with IATA III Australian Code for the Transport of not applicable Dangerous Goods by Road & Rail	
IMDG Air transport in accordance with IATA III Australian Code for the Transport of not applicable Dangerous Goods by Road & Rail	
Australian Code for the Transport of not applicable Dangerous Goods by Road & Rail	
Dangerous Goods by Road & Rail	
4.5 Environmental hazards	
Transport by land according to no ADR/RID	
Inland navigation (ADN) no	
Marine transport in accordance with no IMDG	
Air transport in accordance with IATA no	
Australian Code for the Transport of no Dangerous Goods by Road & Rail (ADG)	
4.6 Special precautions for user	
Relevant information under SECTION 6 to 8.	

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)	Poison Schedule: 7
Applicable prohibitions and notifications/licensing requirements	not applicable
Agricultural and Veterinary Chemicals Act	not applicable
Listing in the Australian Inventory of Chemical Substances (AICS)	All chemical substances in this product are included on Australian Inventory of Industrial Chemicals (Inventory).
Additional information	none



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SECTION 16: Other information

16.1 Abbreviations and acronyms:

		ADR = Accord européen relatif au transport international des marchandises Dangereuses par
		Route
		RID = Règlement concernant le transport international ferroviaire de marchandises
		dangereuses
		ADN = Accord européen relatif au transport international des marchandises dangereuses par
		voie de navigation intérieure
		ATE = acute toxicity estimate
		CAS = Chemical Abstracts Service
		CLP = Classification, Labelling and Packaging
		DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level
		EC50 = Median effective concentration
		ECB = European Chemicals Bureau
		EEC = European Economic Community
		EINECS = European Inventory of Existing Commercial Chemical Substances
		EL50 = Median effective loading
		ELINCS = European List of Notified Chemical Substances
		EmS = Emergency Schedules
		GHS = Globally Harmonized System of Classification and Labelling of Chemicals
		IATA = International Air Transport Association
		IBC-Code = International Code for the Construction and Equipment of Ships carrying
		Dangerous Chemicals in Bulk
		IC50 = Inhibition concentration, 50%
		IMDG = International Maritime Code for Dangerous Goods
		IUCLID = International Uniform ChemicaL Information Database
		LC50 = Lethal concentration, 50%
		LD50 = Median lethal dose
		LC0 = lethal concentration, 0%
		LOAEL = lowest-observed-adverse-effect level
		LL50 = Median lethal loading
		LQ = Limited Quantities
		MARPOL = International Convention for the Prevention of Marine Pollution from Ships
		NOAEL = No Observed Adverse Effect Level
		NOEC = No Observed Effect Concentration
		PBT = Persistent, Bioaccumulative and Toxic substance
		PNEC = Predicted No-Effect Concentration
		REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
		STP = Sewage Treatment Plant TLV®/TWA = Threshold limit value – time-weighted average
		TLV®STEL = Threshold limit value – short-time exposure limit
		VOC = Volatile Organic Compounds
		vPvB = very Persistent and very Bioaccumulative
		The story is oblocome and tory bloadournal atto
16 2	Other information	
10.2		
	Classification procedure	Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
		Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
		Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
		Repr. 2: H361f Suspected of damaging fertility. (Calculation method)
		Carc. 2: H351 Suspected of causing cancer. (Calculation method)
	Modified position	none

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