

Fireshield, a division of Fire Protection Coatings Limited
8013 Christchurch

Date printed 04.07.2023, Revision 25.05.2022

Version 6.0

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

1.1 Product identifier

HENSOGGRUND 2K Base

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Primer

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Fireshield, a division of Fire Protection Coatings Limited
Level 1, 60 Cashel Street
8013 Christchurch / NEW ZEALAND
Phone 0800 FIRESHIELD (0800 347374)
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.

1.4 Emergency telephone number

Advisory body

National Poison Centre (New Zealand): 0800 764 766 (24 hours)



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SECTION 2: Hazards identification

Approval	This product is considered to be a hazardous substance to the Hazardous Substances and New Organisms Act (HSNO).
Hazard classifications	flammable liquids Category 3 skin irritation Category 2 skin irritation Category 2 skin sensitisation Category 1 hazardous to the aquatic environment acute Category 3
Hazard pictograms	 
Signal word	WARNING
Hazard statements	H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe vapours / spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves / protective clothing / eye protection / face protection. P333+P313 If skin irritation or rash occurs: Get medical advice / attention. P362+P364 Take off contaminated clothing and wash it before reuse. P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local/regional/national/international regulation.
Other Classifications	There are no other Classifications that are known to apply.

SECTION 3: Composition / Information on ingredients

3.1 Substances
not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - < 15	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100) CAS: 25068-38-6
5 - 10	Hydrocarbons, C9, aromatics CAS: 128601-23-0
3 - 5	Reaction mass of ethylbenzene and xylene
2.5 - 3	2-Methoxy-1-methylethyl acetate CAS: 108-65-6
1 - 2.5	1-methoxy-2-propanol CAS: 107-98-2
<= 0.20	Reaktionsmasse aus N,N'-Ethan-1,2-diybis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure, 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester CAS: -
< 0.05	Maleic anhydride CAS: 108-31-6

Comment on component parts

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

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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. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Seek medical advice 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.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Foam. Carbon dioxide. Dry powder. Water spray jet.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

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 with the local regulations.
Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use breathing apparatus if exposed to vapours/aerosol.
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.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand).
Dispose of absorbed material in accordance with the regulations.

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6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide good room ventilation even at ground level (vapours are heavier than air).
Provide suitable vacuuming at the processing area.

Vapours can form an explosive mixture with air.
Take precautionary measures against static discharges.
Keep away from all sources of ignition - Refrain from smoking.
Use explosion-proofed equipment/fittings and non-sparking tools.

Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
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.
Protect from heat/overheating and from sun.
Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (NZ)

not applicable

DNEL

Substance
Reaction mass of ethylbenzene and xylene
Industrial, dermal, Long-term - systemic effects, 212 mg/kg bw/day
Industrial, inhalative (vapor), Acute - local effects, 442 mg/m ³
Industrial, inhalative (vapor), Long-term - local effects, 221 mg/m ³
Industrial, inhalative (vapor), Acute - systemic effects, 442 mg/m ³
Industrial, inhalative (vapor), Long-term - systemic effects, 221 mg/m ³
general population, inhalative (vapor), Long-term - systemic effects, 65.3 mg/m ³
general population, oral, Long-term - systemic effects, 12.5 mg/kg bw/day
general population, dermal, Acute - local effects, 125 mg/kg bw/day
general population, inhalative (vapor), Acute - local effects, 260 mg/m ³
general population, inhalative (vapor), Acute - systemic effects, 260 mg/m ³
general population, inhalative (vapor), Long-term - local effects, 65.3 mg/m ³
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
Industrial, inhalative, Long-term - local effects, 550 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 275 mg/m ³
Industrial, dermal, Long-term - systemic effects, 796 mg/kg bw/day
general population, inhalative, Long-term - local effects, 33 mg/m ³
general population, oral, Acute - systemic effects, 500 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 33 mg/m ³
general population, dermal, Long-term - systemic effects, 320 mg/kg bw/day
general population, oral, Long-term - systemic effects, 36 mg/kg bw/day
1-methoxy-2-propanol, CAS: 107-98-2
Industrial, inhalative (vapor), Long-term - systemic effects, 369 mg/m ³
Industrial, dermal, Long-term - systemic effects, 183 mg/kg bw/day
Industrial, inhalative (vapor), Acute - local effects, 553.5 mg/m ³
Industrial, inhalative (vapor), Acute - systemic effects, 553.5 mg/m ³
general population, oral, Long-term - systemic effects, 33 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 78 mg/kg bw/day
general population, inhalative (vapor), Long-term - systemic effects, 43.9 mg/m ³
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
There are no DNEL values established for the substance.
Reaktionsmasse aus N,N'-Ethan-1,2-diylibis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure, 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
Industrial, inhalative, Acute - local effects, 3.35 mg/m ³
Industrial, inhalative, Long-term - local effects, 3.35 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 35.24 mg/m ³
Industrial, inhalative, Acute - systemic effects, 35.24 mg/m ³
general population, oral, Long-term - systemic effects, 5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 8.69 mg/m ³

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general population, inhalative, Acute - local effects, 0.83 mg/m ³
general population, inhalative, Long-term - local effects, 0.83 mg/m ³
general population, inhalative, Acute - systemic effects, 8.69 mg/m ³
general population, oral, Acute - systemic effects, 5 mg/kg bw/day
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
Industrial, dermal, Long-term - systemic effects, 25 mg/kg bw/day
Industrial, inhalative (vapor), Long-term - systemic effects, 150 mg/m ³
general population, dermal, Long-term - systemic effects, 11 mg/kg bw/day
general population, inhalative (vapor), Long-term - systemic effects, 32 mg/m ³
general population, oral, Long-term - systemic effects, 11 mg/kg bw/day
Maleic anhydride, CAS: 108-31-6
Industrial, inhalative, Acute - systemic effects, 200 µg/m ³
Industrial, inhalative, Long-term - local effects, 81 µg/m ³
Industrial, inhalative, Acute - local effects, 200 µg/m ³
Industrial, dermal, Long-term - systemic effects, 200 µg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 81 µg/m ³
Industrial, dermal, Acute - systemic effects, 200 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 50 µg/m ³
general population, inhalative, Long-term - local effects, 80 µg/m ³
general population, dermal, Long-term - systemic effects, 100 µg/kg bw/day
general population, dermal, Acute - systemic effects, 100 µg/kg bw/day
general population, oral, Long-term - systemic effects, 60 µg/kg bw/day
general population, oral, Acute - systemic effects, 100 µg/kg bw/day

PNEC

Substance
Reaction mass of ethylbenzene and xylene
seawater, 0.327 mg/L
freshwater, 0.327 mg/L
sewage treatment plants (STP), 6.58 mg/L
sediment (freshwater), 12.46 mg/kg sediment dw
sediment (seaater), 12.46 mg/kg sediment dw
soil, 2.31 mg/kg soil dw
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
seawater, 0.064 mg/L
sediment (freshwater), 3.29 mg/kg
sediment (seaater), 0.329 mg/kg
soil, 0.29 mg/kg
sewage treatment plants (STP), 100 mg/l
freshwater, 0.635 mg/l
1-methoxy-2-propanol, CAS: 107-98-2
sediment (seaater), 5.2 mg/kg
sewage treatment plants (STP), 100 mg/L
soil, 4.59 mg/kg
freshwater, 10 mg/L
seawater, 1 mg/L
sediment (freshwater), 52.3 mg/kg
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6

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There are no PNEC values established for the substance.
Reaktionsmasse aus N,N'-Ethan-1,2-diylbis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure, 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
sewage treatment plants (STP), 0.1 mg/L
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
There are no PNEC values established for the substance.
Maleic anhydride, CAS: 108-31-6
freshwater, 0.038 mg/L
soil, 0.037 mg/kg soil dw
sediment (seawater), 0.03 mg/kg sediment dw
sediment (freshwater), 0.296 mg/kg sediment dw
sewage treatment plants (STP), 44.6 mg/L
seawater, 0.004 mg/L

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	For short-term contact: 0.4mm Nitrile rubber, >480 min (EN 374-1/-2/-3). 0.4mm Butyl rubber, >480 min (EN 374-1/-2/-3). In full contact: 0.4mm Viton, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.
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	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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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 determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	165
Flash point [°C]	24 (DIN 53213)
Flammability	not applicable
Lower explosion limit	0.7 Vol.-%
Upper explosion limit	13.1 Vol.-%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	1.33 (20°C)
Density [g/cm ³]	1.95 (DIN 53217) (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	> 40 s (6mm)
Relative vapour density	not determined
Evaporation speed	0.7 mg/s
Melting point [°C]	not determined
Auto-ignition temperature [°C]	270
Decomposition temperature [°C]	not determined
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

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Reactions with strong oxidizing agents, strong acids and alkalis.

10.4 Conditions to avoid

See SECTION 7

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10.5 Incompatible materials

Strong basic compounds
Strong oxidizing agent.
strong acids

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
Reaction mass of ethylbenzene and xylene
LD50, oral, Rat, 3523 - 4000 mg/kg
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LD50, oral, Rat, > 5000 mg/kg
1-methoxy-2-propanol, CAS: 107-98-2
LD50, oral, Rat, 5000 mg/kg bw
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
LD50, oral, Rat, 15000 mg/kg
Reaktionsmasse aus N,N'-Ethan-1,2-diylbis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure, 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
LD50, oral, Rat, > 2000 mg/kg
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
LD50, oral, Rat, 6984 mg/kg
Maleic anhydride, CAS: 108-31-6
LD50, oral, Rat, 1090 mg/kg bw

Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
Reaction mass of ethylbenzene and xylene
LD50, dermal, Rabbit, 12126 mg/kg
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LD50, dermal, Rat, > 2000 mg/kg
1-methoxy-2-propanol, CAS: 107-98-2
LD50, dermal, Rabbit, 13500 mg/kg bq
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
LD50, dermal, Rabbit, 23000 mg/kg
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
LD50, dermal, Rabbit, 3160 mg/kg
Maleic anhydride, CAS: 108-31-6
LD50, dermal, Rabbit, 2620 mg/kg bw

Acute inhalational toxicity

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

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Reaction mass of ethylbenzene and xylene
LC50, inhalativ (vapour), Rat, 6350 - 6700 ppm 4h
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LC0, inhalative, Rat, > 4345 ppm (6 h)
1-methoxy-2-propanol, CAS: 107-98-2
LC50, inhalative, Rat, 6 mg/L (4h)
Reaktionsmasse aus N,N'-Ethan-1,2-diybis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure , 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
LD50, inhalative, Rat, > 5.05 mg/l
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
LC50, inhalative, Rat, 6.193 mg/L (4h)

Serious eye damage/irritation

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

Substance
Reaction mass of ethylbenzene and xylene
Eye, irritant
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
Eye, Rabbit, OECD 405, non-irritating
1-methoxy-2-propanol, CAS: 107-98-2
Eye, Rabbit, In vivo study, non-irritating
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
Eye, irritant
Reaktionsmasse aus N,N'-Ethan-1,2-diybis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure , 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
Eye, non-irritating

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
Reaction mass of ethylbenzene and xylene
dermal, irritant
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
dermal, Rabbit, OECD 404, non-irritating
1-methoxy-2-propanol, CAS: 107-98-2
dermal, Rabbit, In vivo study, non-irritating
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
dermal, irritant
Reaktionsmasse aus N,N'-Ethan-1,2-diybis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure , 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
dermal, non-irritating

Respiratory or skin 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.

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Calculation method

Substance
Reaction mass of ethylbenzene and xylene
dermal, non-sensitizing
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
dermal, Guinea pig, OECD 406, non-sensitizing
1-methoxy-2-propanol, CAS: 107-98-2
dermal, Guinea pig, In vivo study, non-sensitizing
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
dermal, sensitising
Reaktionsmasse aus N,N'-Ethan-1,2-diybis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure, 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
dermal, sensitising
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
dermal, non-sensitizing
Maleic anhydride, CAS: 108-31-6
inhalative, Rat, sensitising
dermal, mouse, OECD 429, sensitising

Specific target organ toxicity — single exposure — Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Reaction mass of ethylbenzene and xylene
inhalative, irritant
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
inhalative, adverse effect observed
1-methoxy-2-propanol, CAS: 107-98-2
inhalative, adverse effect observed
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
inhalative, adverse effect observed

Specific target organ toxicity — repeated exposure — Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance
Reaction mass of ethylbenzene and xylene
NOAEL, oral, Rat, 250 mg/kg bw/day (chronic), adverse effect observed
NOAEC, inhalative, Rat, 3515 mg/m ³ (subchronic), adverse effect observed
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEL, dermal, Rabbit, 2675 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.
NOAEL, oral, Rat, 1000 mg/kg bw/day (subacute), no adverse effect observed
NOAEC, inhalative, Rat, 1650 mg/m ³ (subacute), The effects observed are not sufficient for classification.
1-methoxy-2-propanol, CAS: 107-98-2
NOAEL, dermal, Rabbit, 1840 mg/kg bw/day (subchronic), OECD 411, The effects observed are not sufficient for classification.
NOAEC, inhalative, Rat, 1122 mg/m ³ (chronic), OECD 453, The effects observed are not sufficient for classification.
LOAEL, oral, Rat, 460 mg/kg bw/day (subchronic), OECD 408, The effects observed are not sufficient for classification.
Reaktionsmasse aus N,N'-Ethan-1,2-diybis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-

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oxooctadecyl)amino]ethyl]- und Octadecansäure , 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
NOAEL, oral, Rat, 1000 mg/kg bw/day (subchronic), no adverse effect observed
NOAEC, inhalative, Rat, 2020 mg/m ³ (subacute), no adverse effect observed
Maleic anhydride, CAS: 108-31-6
NOAEL, oral, dogs, 60 mg/kg bw/day (subchronic), no adverse effect observed
NOAEC, inhalative, Rat, 3.3 mg/m ³ (subchronic), adverse effect observed

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
Reaction mass of ethylbenzene and xylene
in vivo, no adverse effect observed
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
in vitro, negativ
1-methoxy-2-propanol, CAS: 107-98-2
in vitro, OECD 471, no adverse effect observed
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
in vitro, negativ
Reaktionsmasse aus N,N'-Ethan-1,2-diylbis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure , 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
in vitro, negativ

Reproduction toxicity

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.

- Fertility

Substance
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEL, oral, Rat, 1000 mg/kg bw/day (subacute), OECD 422, no adverse effect observed, Effect on fertility,
NOAEC, inhalative, Rat, 5400 mg/m ³ (subchronic), no adverse effect observed, Effect on fertility,
1-methoxy-2-propanol, CAS: 107-98-2
NOAEL, oral, mouse, 1885 mg/kg bw/day, In vivo study, no adverse effect observed
NOAEC, inhalative, Rat, 3740 mg/m ³ , In vivo study, no adverse effect observed
Maleic anhydride, CAS: 108-31-6
NOAEL, oral, Rat, 140 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed
NOAEL, oral, Rat, 55 mg/kg bw/d (Effect on fertility), no adverse effect observed

- Development

Substance
Reaction mass of ethylbenzene and xylene
inhalative, Rat, 4698 mg/m ³ , no adverse effect observed
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEC, inhalative, Rat, 22464 mg/m ³ , OECD 414, no adverse effect observed
1-methoxy-2-propanol, CAS: 107-98-2
NOAEL, oral, Rat, 920 mg/kg bw/day, In vivo study, no adverse effect observed
NOAEC, inhalative, Rabbit, 11058 mg/m ³ , In vivo study, no adverse effect observed
Maleic anhydride, CAS: 108-31-6

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NOAEL, oral, Rat, 140 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed
NOAEL, oral, Rat, 55 mg/kg bw/d (Effect on fertility), no 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
Reaction mass of ethylbenzene and xylene
NOAEL, oral, Rat, 500 mg/kg bw/day (chronic), no adverse effect observed
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEC, inhalative, Rat, 11058 mg/m ³ (chronic), OECD 453, no adverse effect observed
1-methoxy-2-propanol, CAS: 107-98-2
NOAEC, inhalative, Rat, 11058 mg/m ³ (chronic), OECD 453, no adverse effect observed
Reaktionsmasse aus N,N'-Ethan-1,2-diybis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure, 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
NOAEL, oral, Rat, 1000 mg/kg bw/day (subacute), no adverse effect observed, Effect on fertility,
NOAEC, oral, Rat, 1000 mg/kg bw/day (subacute), no adverse effect observed, Effect on developmental toxicity,
Maleic anhydride, CAS: 108-31-6
NOAEL, oral, Rat, 100 mg/kg bw/day, no adverse effect observed

Aspiration hazard

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
Reaction mass of ethylbenzene and xylene
LC50, (24h), Daphnia magna, 1 mg/l OECD 202
LC50, (96h), Oncorhynchus mykiss, 2.6 mg/l OECD 203
EC50, (72h), Selenastrum capricornutum, 2.2 mg/l OECD 201
NOEC, (21d), Invertebrates, 1.57 mg/l
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LC50, (96h), Oncorhynchus mykiss, 134 mg/l (OECD 203)
EC50, (48h), Daphnia magna, > 500 mg/l
EC50, (72h), Selenastrum capricornutum, > 1000 mg/l (OECD 201)
NOEC, Oryzias latipes, 47.5 mg/l (14 d) (OECD 204)
NOEC, (21d), Daphnia magna, ≥ 100 mg/l (OECD 202)
EC10, Bacteria, > 1000 mg/l (0.5 h) (ISO 8192)
1-methoxy-2-propanol, CAS: 107-98-2
LC50, (96h), Leuciscus idus, >4000 mg/L
EC50, (48h), Daphnia magna, 23300 mg/L
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700 - 1100), CAS: 25068-38-6
LC50, (96h), Leuciscus idus, 2 mg/L
EC50, (48h), Daphnia magna, 1.8 mg/L
EC50, (72h), Algae, 11 mg/L
Reaktionsmasse aus N,N'-Ethan-1,2-diybis(12-hydroxyoctadecan-1-amid), Octadecanamid, 12-Hydroxy-N-[[2-[(1-oxooctadecyl)amino]ethyl]- und Octadecansäure, 12-Hydroxy-, 1-Hexyl-12-[[2-[(12-hydroxy-1-oxooctadecyl)amino]ethyl]amino]-12-oxododecylester, CAS: 123-26-2
EC50, (72h), Algae, 100 mg/L
EL50, (48h), Invertebrates, 10 mg/L
NOEC, (21d), Invertebrates, 10 mg/L
NOELR, (72h), Algae, 100 mg/L
Hydrocarbons, C9, aromatics, CAS: 128601-23-0
LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L
EC50, (48h), Daphnia magna, 6.14 mg/L
EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202)
NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201)
NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l
NOELR, (21d), Daphnia magna, 2.144 mg/l
Maleic anhydride, CAS: 108-31-6
LC50, (96h), fish, 75 mg/L
EC50, (48h), Invertebrates, 42.81 - 330 mg/L
EC50, (72h), Algae, 74.35 - 150 mg/L

12.2 Persistence and degradability

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

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12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

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.

SECTION 13: Disposal considerations

Restrictions	There are no product-specific restrictions. However, state and local disposal regulations may apply.
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.

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID 1263

Inland navigation (ADN) 1263

Marine transport in accordance with IMDG 1263

Air transport in accordance with IATA 1263

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14.2 UN proper shipping name

Transport by land according to ADR/RID

Paint (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l)

- Label



- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN)

Paint (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l)

- Label



Marine transport in accordance with IMDG

Paint (No dangerous goods, according IMDG 2.3.2.5 to max. 30 l (see 5.4.1.5.10) - "transport in compliance with 2.3.2.5 of the IMDG Code")

- EMS

F-E, S-E

- Label



Air transport in accordance with IATA Paint

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID

3

Inland navigation (ADN)

3

Marine transport in accordance with IMDG

3

Air transport in accordance with IATA 3

14.4 Packing group

Transport by land according to ADR/RID

III

Inland navigation (ADN)

III

Marine transport in accordance with IMDG

III

Air transport in accordance with IATA III

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14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 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

SECTION 15: Regulatory information

This product is considered to be a hazardous substance to the Hazardous Substances and New Organisms Act (HSNO).

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

MSDS	The content and format of this Safety-Data-Sheet is in accordance with HSNO Approved Code of Practice.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	No information available.
Approved handler	No information available.
Tracking	No information available.
Bunding & secondary containment	No information available.
Signage	No information available.
Location test certificate	No information available.
Flammable zone	No information available.
Fire extinguisher	No information available.

Note: No information available.

Other Legislation In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.

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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

16.2 Other information

Classification procedure

flammable liquids Category 3: H226 Flammable liquid and vapour. (On basis of test data)
skin irritation Category 2: H315 Causes skin irritation. (Calculation method)
skin irritation Category 2: H319 Causes serious eye irritation. (Calculation method)
skin sensitisation Category 1: H317 May cause an allergic skin reaction. (Calculation method)
hazardous to the aquatic environment acute Category 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

none

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