## Fireshield, a division of Fire Protection Coatings Limited 8013 Christchurch

Date printed 17.07.2023, Revision 19.10.2022 Version 3.0 Page			Page 1 / 14	
SEC	TION 1: Identification of the subs	tance/mixture and of the company/undertaking		
1.1	Product identifier			
		HENSOGRUND 2K EP Base		
1.2	Relevant identified uses of the s	ubstance or mixture and uses advised against		
1.2.1	1.2.1 Relevant uses			
		Basic coating		
1.2.2	2 Uses advised against			
		None known.		
1.3	Details of the supplier of the safe	ety 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 hou	rs)	





Page 2 / 14

# Fireshield, a division of Fire Protection Coatings Limited 8013 Christchurch

Date printed 17.07.2023, Revision 19.10.2022 Version 3.0

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 sensitisation Category 1
	Skin irritation Category 2
	specific target organ toxicity - single exposure Category 3
	specific target organ toxicity - repeated exposure Category 2
Hazard pictograms	
Signal word	WARNING
Hazard statements	H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. N smoking.</li> <li>P260 Do not breathe vapours / spray.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves / protective clothing / eye protection / face protection.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice / attention.</li> <li>P312 Call a POISON CENTER / doctor if you feel unwell.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulation</li> </ul>
	regulation.
Other Classifications	regulation.

### SECTION 3: Composition / Information on ingredients

#### 3.1 Substances

not applicable

#### 3.2 Mixtures

### The product is a mixture.

Range [%]	Substance
15 - < 25 Reaction mass of ethylbenzene and xylene	
1 - <10 Epoxidharz (MolGew. >700 - <=1100)	
	CAS: 25036-25-3
1 - <10	Quartz (≤ 10µm)
	CAS: 14808-60-7

Comment on component parts

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

Version 3.0 Pag

Page 3 / 14

Safety Data Sheet (New Zea	aland)
HENSOGRUND 2K EP Base	e
Fireshield, a division of Fir	e Protection Coatings Limited
3013 Christchurch	5

### **SECTION 4: First aid measures**

SECTION 5: Fire-fighting measures

4.1	1 Description of first aid measures	
	General information	Take off contaminated clothing and wash before reuse.
	Inhalation	Remove the victim into fresh air and keep him calm. 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	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.
4.2	Most important symptoms and eff	ects, both acute and delayed
		Irritant effects Allergic reactions
4.3	Indication of any immediate medio	cal attention and special treatment needed
		Treat symptomatically.

5.1	xtinguishing media		
	Suitable extinguishing media	Foam. Dry powder. Water spray jet. Carbon dioxide.	
	Extinguishing media that must not be used	Full water jet.	
5.2	Special hazards arising from the	substance or mixture	
		In the event of fire the following can be released: Carbon monoxide (CO) Sulphur oxides (SOx). Nitrogen oxides (NOx).	
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. Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains.	
SEC	TION 6: Accidental release measu	ires	
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/dust/aerosol. Use personal protective equipment (protective gloves, safety glasses, protective clothing). High risk of slipping due to leakage/spillage of product.	
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.





Fireshield, a division of Fire Protection Coatings Limited
8013 Christchurch

Date	Date printed 17.07.2023, Revision 19.10.2022         Version 3.0         Page 4 /		Page 4 / 14	
6.3	6.3 Methods and material for containment and cleaning up			
		Take up with absorbent material (e.g. sand). Dispose of absorbed material in accordance within the regula	ations.	
6.4	Reference to other sections			
		See SECTION 8+13		
SEC	TION 7: Handling and storage			
7.1	Precautions for safe handling			
		Provide good room ventilation even at ground level (vapours Provide suitable vacuuming at the processing area.	are heavier than air)	).
		Take precautionary measures against static discharges. Keep away from all sources of ignition - Refrain from smokin Use explosion-proofed equipment/fittings and non-sparkling Vapours can form an explosive mixture with air.	-	
		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 area	is must be thorough	ly cleaned.
7.2	Conditions for safe storage, incl	uding 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. 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		

Date printed 17.07.2023, Revision 19.10.2022

SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (NZ)

not applicable

DNEL

Reaction	on mass of ethylbenzene and xylene
Industr	ial, inhalative (vapor), Long-term - systemic effects, 221 mg/m <sup>3</sup>
Industr	ial, inhalative (vapor), Acute - systemic effects, 442 mg/m <sup>3</sup>
Industr	ial, inhalative (vapor), Long-term - local effects, 221 mg/m <sup>3</sup>
Industr	ial, inhalative (vapor), Acute - local effects, 442 mg/m <sup>3</sup>
Industr	ial, dermal, Long-term - systemic effects, 212 mg/kg bw/day
genera	l population, inhalative (vapor), Long-term - systemic effects, 65.3 mg/m <sup>3</sup>
genera	l population, inhalative (vapor), Acute - systemic effects, 260 mg/m <sup>3</sup>
genera	l population, inhalative (vapor), Long-term - local effects, 65.3 mg/m <sup>3</sup>
genera	l population, inhalative (vapor), Acute - local effects, 260 mg/m <sup>3</sup>
genera	l population, dermal, Acute - local effects, 125 mg/kg bw/day
aenera	l population, oral, Long-term - systemic effects, 12.5 mg/kg bw/day

PNEC

Substance	
Reaction mass of ethylbenzene and xylene	
soil, 2.31 mg/kg soil dw	
sediment (seaater), 12.46 mg/kg sediment dw	
sediment (freshwater), 12.46 mg/kg sediment dw	
sewage treatment plants (STP), 6.58 mg/L	
seawater, 0.327 mg/L	
freshwater, 0.327 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	0.7mm 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 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.
Respiratory protection	Breathing apparatus in the event of high concentrations. 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.



Version 3.0 Page 5 / 14

Information on basic physical and chemical properties

liquid

liquid

light grey

characteristic

not applicable

not applicable

not applicable

not determined

26

Date printed 17.07.2023, Revision 19.10.2022

9.1

**Physical state** 

**Odour threshold** 

pH-value [1%]

Boiling point [°C]

Form

Color

Odor

pH-value

SECTION 9: Physical and chemical properties

10.4 Conditions to avoid
Strong heating.
See SECTION 7
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# Version 3.0

Page 6 / 14

Flash point [°C] Flammability not applicable 1 Vol.% Lower explosion limit Upper explosion limit 8 Vol.% **Oxidising properties** no Vapour pressure/gas pressure [kPa] not determined 1.65-1.75 (20 °C / 68,0 °F) Density [g/cm<sup>3</sup>] **Relative density** not determined Bulk density [kg/m<sup>3</sup>] not applicable Solubility in water insoluble Solubility other solvents No information available. Partition coefficient [n-octanol/water] not determined Kinematic viscosity 2500 - 3500 mPas (20 °C) > 130 s 6mm (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 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 alkalies.



Date printed 17.07.2023, Revision 19.10.2022

Version 3.0

Page 7 / 14

#### 10.5 Incompatible materials

See SECTION 10.3.

#### **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

Date printed 17.07.2023, Revision 19.10.2022

# 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		

#### Acute dermal toxicity

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

Substance

Reaction mass of ethylbenzene and xylene
LD50, dermal, Rabbit, 12126 mg/kg

#### Acute inhalational toxicity

Product
ATE-mix, inhalative, > 20 mg/l 4h
Substance

Reaction mass of ethylbenzene and xylene

LC50, inhalativ (vapour ), Rat, 6350 - 6700 ppm 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

#### 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	

#### 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. Calculation method

Substance		
Reaction mass of ethyl	penzene and xylene	
dermal, non-sensitizing		



Version 3.0 Page 8 / 14



orinted 17.07.2023,	Revision 19.10.20	Version 3.0	Page 9
Specific target organ toxicity — single exposure		May cause respiratory irritation. Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method	
	Substance		
	Reaction mass of	f ethylbenzene and xylene	
	inhalative, irritan	t	
Specific target org repeated exposure		May cause damage to organs through prolonged or repeated exposure. Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method	
	Substance		
	Reaction mass of	f ethylbenzene and xylene	
	NOAEL, oral, Ra	t, 250 mg/kg bw/day (chronic), adverse effect observed	
	NOAEC, inhalati	ve, Rat, 3515 mg/m <sup>3</sup> (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	f ethylbenzene and xylene	
in vivo, no ad		se effect observed	
Reproduction toxi	city	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		No information available.	
- Development			
	Substance		
	Reaction mass of	f ethylbenzene and xylene	
	inhalative, Rat, 4	698 mg/m <sup>3</sup> , 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, or		t, 500 mg/kg bw/day (chronic), no adverse effect observed	
		Based on the available information, the classification criteria are not fulfilled.	
Aspiration hazard			
Aspiration hazard General remarks			



#### 8013 Christchurch

Date printed 17.07.2023, Revision 19.10.2022

# SECTION 12: Ecological information

Product

### 12.1 Toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance	
Reaction mass of ethylbenzene and xylene	
LC50, (24h), Daphnia magna, 1 mg/l OECD 202	
LC50, (96h), Oncorhynchus mykiss, 2.6 mg/I OECD 203	
EC50, (72h), Selenastrum capricornutum, 2.2 mg/l OECD 201	
NOEC, (21d), Invertebrates, 1.57 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.

#### 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

Does not contain a relevant substance that meets the classification criteria.

#### 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.	



Version 3.0 Page 10 / 14



# Fireshield, a division of Fire Protection Coatings Limited

# 8013 Christchurch

Date	printed 17.07.2023, Revision 19.10.2022	Version 3.0 Page 11 / 14
0.00		
	TION 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
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 I (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



Date printed 17.07.2023, Revision 19.10.2022         Version 3.0         Page 12 / 1				
14.4	Packing group			
	Transport by land according to ADR/RID	III		
	Inland navigation (ADN)	III		
	Marine transport in accordance with IMDG	111		
	Air transport in accordance with IATA	111		
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



Page 13 / 14

Version 3.0

# Fireshield, a division of Fire Protection Coatings Limited 8013 Christchurch

Date printed 17.07.2023, Revision 19.10.2022

#### **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.			



Page 14 / 14

Version 3.0

# Fireshield, a division of Fire Protection Coatings Limited 8013 Christchurch

Date printed 17.07.2023, Revision 19.10.2022

### 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 flammable liquids Category 3: H226 Flammable liquid and vapour. (On basis of test data) **Classification procedure** Skin irritation Category 2: H315 Causes skin irritation. (Calculation method) Skin sensitisation Category 1: H317 May cause an allergic skin reaction. (Calculation method) Skin irritation Category 2: H319 Causes serious eye irritation. (Calculation method) specific target organ toxicity - single exposure Category 3: H335 May cause respiratory irritation. (Calculation method)

specific target organ toxicity - repeated exposure Category 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)

**Modified position** 

none

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