

Fireshield, a division of Fire Protection Coatings Limited  
8013 Christchurch

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

**1.1 Product identifier**

**FIRESHIELD 920 KS Hardener**

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

**1.2.1 Relevant uses**

Fire retardant coating

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer**

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](http://www.fireshieldcoatings.com)  
E-mail [info@fireshieldcoatings.com](mailto:info@fireshieldcoatings.com)

**Address enquiries to**

**Technical information**

[info@fireshieldcoatings.com](mailto:info@fireshieldcoatings.com)

**Safety Data Sheet**

[sdb@chemiebuero.de](mailto: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

<b>Approval</b>	This product is considered to be a hazardous substance to the Hazardous Substances and New Organisms Act (HSNO). Surface Coatings and Colourants (Corrosive, Carcinogenic) Group Standard 2020 - HSR002660 (consolidated and current)	
<b>Hazard classifications</b>	skin corrosion Category 1C Serious eye damage Category 1 Skin sensitisation Category 1 reproductive toxicity Category 2 Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment acute Category 1 carcinogenicity Category 2	
<b>Hazard pictograms</b>	 	 
<b>Signal word</b>	DANGER	
<b>Hazard statements</b>	H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H361f Suspected of damaging fertility. H410 Very toxic to aquatic life with long lasting effects.	
<b>Precautionary statements</b>	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 protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P310 Immediately call a POISON CENTER / doctor. P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local/regional/national/international regulation.	
<b>Other Classifications</b>	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
30 - 50	Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine CAS: 1226892-45-0
1 - 10	Melamine CAS: 108-78-1
3 - 10	2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2
< 1	Amines, polyethylenepoly-, tetraethylenepentamine fraction CAS: 90640-66-7

**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

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Seek medical advice immediately.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor immediately.
<b>Ingestion</b>	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  
Product is caustic.

##### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Water spray jet. Carbon dioxide. Foam. Dry powder.
<b>Extinguishing media that must not be used</b>	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.

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.  
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

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

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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.

### 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.

### 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
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
Industrial, inhalative, Long-term - systemic effects, 0,53 mg/m <sup>3</sup>
Industrial, inhalative, Acute - systemic effects, 2,1 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 0,15 mg/kg bw/day
Industrial, dermal, Acute - systemic effects, 0,6 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0,13 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 0,13 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 0,075 mg/kg bw/day
general population, dermal, Acute - systemic effects, 0,075 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,075 mg/kg bw/day
Melamine, CAS: 108-78-1
Industrial, dermal, Acute - systemic effects, 117 mg/kg
Industrial, inhalative, Acute - systemic effects, 82,3 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 8,3 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 11,8 mg/kg
general population, inhalative, Long-term - systemic effects, 1,5 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 4,2 mg/kg
general population, oral, Long-term - systemic effects, 0,42 mg/kg
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
Industrial, inhalative, Long-term - systemic effects, 9,87 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 1,4 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1,74 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 0,5 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,5 mg/kg bw/day
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
Industrial, inhalative, Long-term - systemic effects, 0,82 mg/m <sup>3</sup>
Industrial, dermal, Long-term - local effects, 0,25 mg/cm <sup>2</sup>
general population, dermal, Long-term - local effects, 20,8 µg/cm <sup>2</sup>
general population, oral, Long-term - systemic effects, 0,21 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0,14 mg/m <sup>3</sup>

**PNEC**

Substance
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
freshwater, 0,046 mg/L
seawater, 0,005 mg/L
sewage treatment plants (STP), 0,2 mg/L
sediment (freshwater), 0,262 mg/kg sediment dw
sediment (seaater), 0,026 mg/kg sediment dw
soil, 0,025 mg/kg soil dw
Melamine, CAS: 108-78-1
freshwater, 0,51 mg/L
seawater, 0,051 mg/L
sediment (freshwater), 2,524 mg/kg sediment dw
sediment (seaater), 0,252 mg/kg sediment dw
soil, 0,206 mg/kg soil dw
sewage treatment plants (STP), 200 mg/L

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Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
freshwater, 30,7 µg/L
seawater, 3,07 µg/L
sewage treatment plants (STP), 2,3 mg/L
sediment (freshwater), 119,8 mg/kg
sediment (seaater), 11,98 mg/kg
soil, 9,44 mg/kg
oral (food), 20 mg/kg
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
freshwater, 0,01 mg/L
seawater, 0,001 mg/L
sewage treatment plants (STP), 4,6 mg/L
sediment (freshwater), 3,198 mg/kg sediment dw
sediment (seaater), 0,32 mg/kg sediment dw
soil, 2,5 mg/kg soil dw

## 8.2 Exposure controls

<b>Additional advice on system design</b>	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.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,4mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. 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. Do not breathe vapour/spray. Avoid contact during pregnancy/while nursing.
<b>Respiratory protection</b>	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)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	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	white
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°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 <sup>3</sup> ]	1,25 - 1,38 (20 °C / 68,0 °F)
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 (log value)	not determined
Kinematic viscosity	14000 - 24000 mPas (20°C)
Relative vapour density	not determined
Melting point [°C]	not determined
Auto-ignition temperature [°C]	not applicable
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

Reactions with strong oxidizing agents, strong acids and alkalis.

### 10.4 Conditions to avoid

See SECTION 7

### 10.5 Incompatible materials

Oxidizing agent  
Acids  
Alkalies

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#### **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
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
LD50, oral, Rat, 2169 mg/kg OECD TG 401
Melamine, CAS: 108-78-1
LD50, oral, Rat (female), 3828 mg/kg
LD50, oral, Rat (male), 3161 mg/kg
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
LD50, oral, Rat (female), 2500 mg/kg
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
LD50, oral, Rat, 1716 mg/kg

**Acute dermal toxicity**

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
Melamine, CAS: 108-78-1
LD50, dermal, Rat, > 2000 mg/kg
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
LD50, dermal, Rabbit, 1260 mg/kg

**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

**Serious eye damage/irritation**

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

Substance
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
Eye, corrosive
Melamine, CAS: 108-78-1
Eye, non-irritating
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
Eye, corrosive
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
Eye, corrosive

**Skin corrosion/irritation**

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

Substance
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2

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dermal, corrosive
Melamine, CAS: 108-78-1
Rabbit, OECD 404, non-irritating
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
dermal, corrosive
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
dermal, corrosive

**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
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
dermal, non-sensitizing
Melamine, CAS: 108-78-1
Guinea pig, OECD 406, non-sensitizing
inhalative, non-sensitizing
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
dermal, sensitising
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
dermal, sensitising

**Specific target organ toxicity — single exposure**      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.

**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
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
NOAEL, oral, Rat, 15 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.
Melamine, CAS: 108-78-1
NOAEL, oral, Rat, 72 mg/kg bw/day (subchronic), adverse effect observed
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
NOAEL, oral, Rat, 300 mg/kg bw/day (subacute), no adverse effect observed
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
NOAEL, dermal, Rabbit, 200 mg/kg bw/day (subacute), no 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
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
in vitro, no adverse effect observed
Melamine, CAS: 108-78-1
in vitro, negativ
in vivo, negativ
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
in vitro, no adverse effect observed
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
in vitro, The effects observed are not sufficient for classification.
in vivo, no adverse effect observed

**Reproduction toxicity**      Suspected of damaging fertility.  
 Based on the available information, the classification criteria are fulfilled.  
 Toxicological data of complete product are not available.  
 Calculation method

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**- Fertility**

Substance
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
NOAEL, Rat, 150 mg/kg bw/day (subchronic), no adverse effect observed
Melamine, CAS: 108-78-1
NOAEL, oral, Rat, 89 mg/kg bw/day (subchronic), adverse effect observed
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
NOAEL, oral, Rat, 300 mg/kg bw/day (subacute), no adverse effect observed
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
NOAEL, oral, Rat, 400 mg/kg bw/day (subacute), no adverse effect observed
NOAEL, dermal, Rabbit, 125 mg/kg bw/day (subacute), no adverse effect observed

**- Development**

Substance
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
NOAEL, Rat, 150 mg/kg bw/day (subchronic), no adverse effect observed
Melamine, CAS: 108-78-1
NOAEL, oral, Rabbit, 150 mg/kg bw/day (subacute), no adverse effect observed
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
NOAEL, oral, Rat, 300 mg/kg bw/day (subacute), no adverse effect observed
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
NOAEL, oral, Rat, 400 mg/kg bw/day (subacute), no adverse effect observed
NOAEL, dermal, Rabbit, 125 mg/kg bw/day (subacute), no adverse effect observed

**Carcinogenicity**

Based on the available information, the classification criteria are fulfilled.  
 Suspected of causing cancer.  
 Toxicological data of complete product are not available.

Substance
Melamine, CAS: 108-78-1
LOAEL, oral, Rat, 126 mg/kg bw/day (chronic), adverse effect observed

**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
2,4,6-tris(dimethylaminomethyl)phenol, CAS: 90-72-2
LC50, (96h), Cyprinus carpio, 175 mg/l
EC50, (72h), Desmodesmus subspicatus, 84 mg/l OECD TG 201
NOEC, (72h), Desmodesmus subspicatus, 6,25 mg/l OECD TG 201
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
Fatty acids, C18-unsatd., reaction products with tetraethylenepentamine, CAS: 1226892-45-0
LC50, (96h), Danio rerio, 0,19 mg/L OECD TG 203
EC50, (48h), Daphnia magna, 0,18 mg/L OECD TG 202
EC50, (72h), Pseudokirchneriella subcapitata, 0,638 mg/L OECD TG 201
Amines, polyethylenepoly-, tetraethylenepentamine fraction, CAS: 90640-66-7
LC50, (96h), Fish, 420 mg/L (ECHA)
EC10, (21d), Fish, 1,9 mg/L (ECHA)
ErC50, (72h), Algae, 24,1 mg/L (ECHA)

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	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

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

None known.

## SECTION 13: Disposal considerations

<b>Restrictions</b>	There are no product-specific restrictions. However, state and local disposal regulations may apply.
<b>Disposal method</b>	Disposal of this product must comply with the requirements of state and local disposal regulations.
<b>Contaminated packaging</b>	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

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#### SECTION 14: Transport information

##### 14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG 2735

Air transport in accordance with IATA 2735

##### 14.2 UN proper shipping name

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG Amines, liquid, corrosive, n.o.s. (Fatty acids C18 unsat, reaction products with tetraethylenepentamine, 2,4,6-Tris(dimethylaminomethyl)phenol)

- EMS F-A, S-B

- Label



- IMDG LQ 5 I

Air transport in accordance with IATA Amines, liquid, corrosive, n.o.s. (Fatty acids C18 unsat, reaction products with tetraethylenepentamine, 2,4,6-Tris(dimethylaminomethyl)phenol)

- Label



##### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG 8

Air transport in accordance with IATA 8

##### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

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	yes
Inland navigation (ADN)	yes
Marine transport in accordance with IMDG	MARINE POLLUTANT
Air transport in accordance with IATA	yes

#### 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).  
Surface Coatings and Colourants (Corrosive, Carcinogenic) Group Standard 2020 - HSR002660 (consolidated and current)

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

Key workplace requirements are:

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

**Note:** Group Standard conditions that must be met:  
Surface Coatings and Colourants (Corrosive, Carcinogenic) Group Standard 2020  
HSR002660 (consolidated and current), Schedule 1

**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

skin corrosion Category 1C: H314 Causes severe skin burns and eye damage. (Calculation method)  
Serious eye damage Category 1: H318 Causes serious eye damage. (Calculation method)  
Skin sensitisation Category 1: H317 May cause an allergic skin reaction. (Calculation method)  
reproductive toxicity Category 2: H361f Suspected of damaging fertility. (Calculation method)  
Hazardous to the aquatic environment acute Category 1: H400 Very toxic to aquatic life. (Calculation method)  
Hazardous to the aquatic environment acute Category 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)  
carcinogenicity Category 2: H351 Suspected of causing cancer. (Calculation method)

#### Modified position

none

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