Commercial Product Name: FIS EM Plus 390/585/1500 S -

Replaces version from: 04.06.2018

Component A (Mortar) Revision Date: 06.06.2023 Version: 1.1 /en

Print date: 06.06.2023

SECTION1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Commercial Product Name FIS EM Plus 390/585/1500 S - Component A (Mortar)

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

Relevant identified uses composite mortar

Recommended restrictions None under normal processing. Observe technical data sheet.

1.3 Details of the supplier of the safety data sheet

Company designation fischerwerke GmbH & Co. KG

> Klaus-Fischer-Straße 1 D-72178 Waldachtal

Telephone: +49(0)7443 12-0 FAX: +49(0)7443 12-4222 Email: info-sdb@fischer.de Internet: www.fischer.de

Marketer AnchorMark Pty. Ltd.

Unit 1, 61Waterview Close

Dandenong South VIC 3175, Australia Telephone: +61 (0) 3 97992096

FAX: +61 (0) 3 97992096

Email: info@anchormark.com.au

1.4 Emergency telephone number

FOR FIRST AID ADVICE CALL A POISONS INFORMATION CENTRE PHONE Emergency telephone number

13 11 26 - THIS NUMBER IS FOR USE IN AUSTRALIA ONLY

SECTION2: Hazardsidentification

2.1 Classification of the substance or mixture

Classification according to Reg-Skin Corr. 1C; H314 Skin Sens. 1; H317 Repr. 1B; H360F STOT SE 3;

ulation (EC) No. 1272/2008 H335 Aquatic Chronic 2; H411

2.2 Label elements

Hazard pictogram





GHS07





GHS09

Signal word Danger

Commercial Product Name: FIS EM Plus 390/585/1500 S -

Component A (Mortar)

Replaces version from: 04.06.2018 Revision Date: 06.06.2023 Version: 1.1 /en

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Hazardous component(s) to be

indicated on label

reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700), Portlandzement, reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight <= 700), trimethylolpropane triglycidyl ether, [3-(2, 3-

epoxypropoxy)propyl]trimethoxysilane

H-statement(s) H314: Causes severe skin burns and eye damage.

> H317: May cause an allergic skin reaction. H335: May cause respiratory irritation.

H360F: May damage fertility.

H411: Toxic to aquatic life with long lasting effects.

P-statement(s) P201: Obtain special instructions before use.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

P310: Immediately call a POISON CENTER or doctor/physician.

Further information Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

Health hazard None known.

Particular information pertaining specific risk for human / en-

vironment

None known.

Indication of danger None known.

Hazard precautions None known.

SECTION3: Composition/informationoningredients

Hazardous ingredients

Ingredient		GHS Classification	Concentration
reaction product: bisphe- nol-A-(epichlorhydrin), epoxy resin (number aver- age molecular weight <= 700)	CAS No.: 25068-38-6 EC-No.: 500-033-5	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	25.0 – 50.0 % by weight
portlandcement	CAS No.: 65997-15-1 EC-No.: 266-043-4	Skin Irrit. 2;H315 Eye Dam. 1; H318 STOT SE 3;H335	25.0 - 50.0 % by weight

Commercial Product Name: FIS EM Plus 390/585/1500 S -

Component A (Mortar)

Revision Date: 06.06.2023 Replaces version from: 04.06.2018 Version: 1.1 /en

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Ingredient		GHS Classification	Concen- tration
reaction product: bisphe- nol-F-(epichlorhydrin) Epoxy resin (number aver- age molecular weight <= 700)	CAS No.: 28064-14-4	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	10.0 -
trimethylolpropane trigly- cidyl ether	CAS No.: 30499-70-8	Skin Corr. 1C; H314 Skin Sens. 1; H317 Eye Dam. 1; H318 Repr. 1B; H360F Aquatic Chronic 2; H411	2.5 – 10.0 % by weight
[3-(2,3-epoxypropoxy)propyl]trimet oxysilane	CAS No.: 2530-83-8	Eye Dam. 1; H318	2.5 – 10.0 % by weight

SECTION4:Firstaidmeasures

4.1 Description of first aid measures

General advice If symptoms persist, call a physician.

Take off all contaminated clothing immediately.

Remove/Take off immediately all contaminated clothing.

If inhaled Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact Do not get on skin.

Wash off immediately with soap and plenty of water.

If skin irritation or rash occurs, seek medical advice/attention.

In case of eye contact In case of eye contact, remove contact lens and rinse immediately

with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

If swallowed If swallowed, seek medical advice immediately and show this contain-

er or label.

Rinse mouth with water. Drink 1 or 2 glasses of water.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known. **Symptoms**

4.3 Indication of any immediate medical attention and special treatment needed

No data available Immediate medical attention Special medical treatment No data available

<u>SECTION5:Firefightingmeasures</u>

5.1 Extinguishing media

Suitable extinguishing media Dry powder

Foam

Commercial Product Name: FIS EM Plus 390/585/1500 S -

Component A (Mortar) Revision Date: 06.06.2023

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Carbon dioxide (CO2) Water spray jet

Extinguishing media which must

High volume water jet

not be used for safety reasons

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising Hazardous decomposition products formed under fire conditions.

from the substance or prepara-

Sulphur oxides

tion itself, its combustion prod-

nitrogen oxides (NOx)

ucts, or released gases

Carbon oxides

5.3 Advice for firefighters

Special protective equipment for

firefighting

In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.

Additional information on fire-

Fire residues and contaminated fire extinguishing water must be dis-

fighting

posed of in accordance with local regulations.

SECTION6: Accidental releasemeasures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Environmental precautions The product should not be allowed to enter drains, water courses or

the soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Use mechanical handling equipment.

Dispose of contents/container in accordance with local regulation.

6.4 Reference to other sections

Reference to other sections See chapter: 8/13

SECTION7: Handlingandstorage

7.1 Precautions for safe handling

Advice on safe handling None under normal processing.

Precautions Observe label precautions.

Advice on protection against fire

and explosion

not required under normal use

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container re-Store in original container.

quirements Keep container tightly closed.

Store in accordance with local regulations.

Commercial Product Name: FIS EM Plus 390/585/1500 S -

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Do not store near acids. Hints on storage assembly

Keep away from oxidising agents, strongly acid or alkaline materials,

as well as of amines, alcohols and water.

Storage specifications Keep container tightly closed in a dry and well-ventilated place.

Protect from sunlight and store in well-ventilated place.

7.3 Specific end use(s)

Specific use(s) composite mortar

Further information: see technical data sheet.

SECTION8: Exposure controls/personal protection

8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Respiratory protection No personal respiratory protective equipment normally required.

In case of inadequate ventilation wear respiratory protection.

Hand protection

Suitable material: butyl-rubber, Fluorinated rubber, Nitrile rubber

Break through time: > 120 min

Remarks: Take note of the information given by the producer concerning per-

> meability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves com-

plying with EN 374.

Reference substance: Replace when worn.

Eye protection Safety glasses

Skin and body protection Wear suitable protective equipment.

General protective and hygiene

Avoid contact with the skin and the eyes.

Smoking, eating and drinking should be prohibited in the application measures

area.

Wash hands before breaks and immediately after handling the prod-

Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.

Information on environmental

protection regulations

No special environmental precautions required.

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Component A (Mortar)

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SECTION9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form paste Colour white

Odour characteristic рН not determined

Melting point [°C] / Freezing

point [°C]

not determined

not determined Boiling point [°C]

> 100 Flash point [°C]

No data available Evaporation rate $[kg/(s*m^2)]$ No data available Flammability (solid, gas)

Explosion limits [Vol-%]

Lower limit: not determined Upper limit: not determined

Vapour pressure [kPa] No data available

Density [g/cm³] 1,5 - 1,6

> 20 °C Temperature:

not determined Water solubility [g/l]

Partition coefficient n-octanol /

water (log P O/W)

not determined

Autoignition temperature [°C] not determined

not auto-flammable Autoinflammability

Decomposition temperature [°C] not determined

Viscosity, dynamic [kg/(m*s)] 90 - 130

> 20 °C Temperature:

Risk of explosion. Not explosive

9.2 Other information

not determined Ignition temperature [°C]

Oxidizing properties no

Component A (Mortar)

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SECTION 10: Stability and reactivity

10.1 Reactivity

Thermal decomposition No decomposition if stored and applied as directed.

10.2 Chemical stability

Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid No dangerous reaction known under conditions of normal use.

10.5 Incompatible materials

Materials to avoid Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition prod-None reasonably foreseeable.

ucts

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients

epoxy resin (number average molecular weight .LE. 700), reaction product: bisphenol-A-(epichlorhydrin)

Oral toxicity [mg/kg]	Test criterion	Test species	Source
30000	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 2000	LD50	rat	100

Source: 100 - Company data

Inhalative toxicity	Test criterion	Test species	Exposure duration	Source
[mg/l]				
0,000008	LC0	rat	5 h	100

Source: 100 - Company data

Specific target organ toxicity (single exposure) [mg/kg]	Remarks	Source
	Not applicable.	100

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Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	Not applicable.	100

Source: 100 - Company data

portlandcement

Oral toxicity [mg/kg]	Test criterion	Remarks	Source
> 2000	LD50	literature value	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
> 2000	LD50	rabbit	Limit test 2000 mg/kg	100

Source: 100 - Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Note	Source
> 5	LC50	rat	Limit Test 5 g/m³	100

Source: 100 - Company data

Specific target organ toxicity (single exposure) [mg/kg]	Specific effects	Source
	Irritating to respiratory system. (dust)	100

Source: 100 - Company data

Specific target organ toxicity (repeated expo-	Remarks	Source
sure) [mg/kg]		
	Not applicable.	100

Source: 100 - Company data

reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number aver- age molecular weight <= 700)

Oral toxicity [mg/kg]	Test criterion	Test species	Source
> 5000	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 2000	LD50	rat	100

Source: 100 - Company data

Inhalative toxicity [mg/l]	Source
Not applicable.	100

Source: 100 - Company data

Specific target organ toxicity (single exposure) [mg/kg]	Remarks	Source
	Not applicable.	100

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Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	Not applicable.	100

Source: 100 - Company data

Trimethylolpropantriglycidether

	Oral toxicity [mg/kg]	Source
Γ	no data available	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Source
no data available	100

Source: 100 - Company data

Inhalative toxicity [mg/l]	Source
no data available	100

Source: 100 - Company data

Specific target organ toxicity (single expo-	Remarks	Source
sure) [mg/kg]		
	No data available	100

Source: 100 - Company data

Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	No data available	100

Source: 100 - Company data

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Oral toxicity [mg/kg]	Test criterion	Test species	Source
8025	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
4250	LD50	rabbit	100

Source: 100 - Company data

Inhalative toxicity	Test criterion	Test species	Note	Exposure dura-	Source
[mg/l]				tion	
> 5,3	LC50	rat	OECD 403	4 h	100

Source: 100 - Company data

Specific target organ toxicity (single exposure) [mg/kg]	Remarks	Source
	Not applicable.	100

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Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	Not applicable.	100

Source: 100 - Company data

Irritant effect on eyes Risk of serious damage to eyes.

Sensitization There is no data available for this product.

Carcinogenic effects No data available

Mutagenicity There is no data available for this product.

Reproduction toxicity There is no data available for this product.

Caustic effect Causes severe skin burns and eye damage.

11.2 Additional information

Other information (chapter 11.) There is no data available for this product.

SECTION12: Ecological information

12.1 Toxicity

Hazardous ingredients

epoxy resin (number average molecular weight .LE. 700), reaction product: bisphenol-A-(epichlorhydrin)

Toxicity to fish [mg/l]	Test criterion	Measuring method	Exposure duration	Source
1,3	LC50	OECD Test Guideline	96 h	100
		203		

Source: 100 - Company data

Toxicity to daphnia	Test criterion	Test species	Exposure duration	Source
[mg/l]				
1,8	EC50	Daphnia magna (Water	48 h	100
		flea)		

Source: 100 - Company data

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
[]				
10	EC50	Chlorella pyrenoidosa	72 h	100

Source: 100 - Company data

NOEC (daphnia) [mg/l]	Test species	Measuring method	Exposure duration	Source
0,3	Daphnia magna (Big	OECD 211	21 d	100
	water flea)			

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portlandcement

Toxicity to fish [mg/l]	Test criterion	Source
> 100	LC50	100

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Source
> 100	LC50	Daphnia magna (Water flea)	100

Source: 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Source
> 100	EC50	100

Source: 100 - Company data

reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number aver- age molecular weight <= 700)

Toxicity to fish [mg/l]	Test criterion	Measuring method	Exposure duration	Source
> 1	LC50	OECD Test Guideline	96 h	100
		203		

Source: 100 - Company data

Toxicity to daph-	Test criterion	Test species	Exposure dura-	Measuring	Source
nia [mg/l]			tion	method	
> 1	EC50	Daphnia magna	48 h	OECD Test Guide-	100
		(Water flea)		line 202	

Source: 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Exposure duration	Source
> 1	EC50	72 h	100

Source: 100 - Company data

NOEC (daphnia) [mg/l]	Test species	Measuring method	Exposure duration	Source
0,3	Daphnia magna (Big	OECD 211	21 d	100
	water flea)			

Source: 100 - Company data

Trimethylolpropantriglycidether

Toxicity to fish [mg/l]	Soul	rce
No data available	100	,

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Source
No data available	100

Source: 100 - Company data

Т	Foxicity to algae [mg/l]	Source
Ν	No data available	100

Commercial Product Name: FIS EM Plus 390/585/1500 S -

Component A (Mortar)



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[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
55	LC50	Cyprinus carpio (Carp)	96 h	100

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
324	EC50	Daphnia magna (Water flea)	48 h	100

Source: 100 - Company data

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
119	EC50	Anabaena sp.	7 d	100

Source: 100 - Company data

NOEC (daphnia) [mg/l]	Test species	Measuring method	Exposure duration	Source
100	Daphnia magna (Big	OECD 202	21 d	100
	water flea)			

Source: 100 - Company data

12.2 Persistence and degradability

Elimination and distribution There is no data available for this product.

mechanisms

Elimination in purification plant

There is no data available for this product.

Biodegradability

There is no data available for this product.

12.3 Bioaccumulative potential

Bioaccumulation There is no data available for this product.

Bioconcentration factor (BCF) There is no data available for this product.

12.4 Mobility in soil

Distribution in the environment There is no data available for this product.

Mobility There is no data available for this product.

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics This preparation contains no substance considered to be persistent,

determination

bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Further information on ecology No information on ecology is available.

Commercial Product Name: FIS EM Plus 390/585/1500 S -

Component A (Mortar)





SECTION13:Disposalconsiderations

13.1 Waste treatment methods

Disposal considerations Dispose of as hazardous waste in compliance with local and national

regulations.

Waste Code **Product**

080409 - waste adhesives and sealants containing organic solvents

or other dangerous substances

cured material

200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING

SEPARATELY COLLECTED FRACTIONS

Uncleaned empty packaging Dispose of as unused product.

Do not flush into surface water or sanitary sewer system.

SECTION14:Transportinformation

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1759	1759	1759
14.2 Description of the	CORROSIVE SOLID, N.O.S.	CORROSIVE SOLID, N.O.S.	Ätzender Feststoff, n.a.g.
goods			
14.2 UN proper shipping		CORROSIVE SOLID, N.O.S.	Corrosive solid, n.o.s.
name			
14.3 Transport hazard	8	8	8
class(es)			
14.4 Packaging group	III	III	III
14.5 Environmental haz-	U - Environmentally haz-	U - marine pollutant	U - Environmentally haz-
ards	ardous		ardous
Labels	8	8	8
	1	L	*
Risk No.	80		
Category	3		
Classification Code	C10		
Tunnel restriction code	E		
Danger releasing sub-	trimethylolpropane trigly-	trimethylolpropane trigly-	trimethylolpropane trigly-
stance	cidyl ether	cidyl ether	cidyl ether
EmS		F-A;S-B	
Stowage category		Α	

14.6 Special precautions for user

Precautions not required under normal use

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

Transport in bulk according to

not applicable

Annex II of MARPOL and the IBC

Code

Commercial Product Name: FIS EM Plus 390/585/1500 S -

Component A (Mortar)

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SECTION15:Regulatoryinformation

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Restriction of occupation. Do not use for private purposes (household).

15.2 Chemical safety assessment

Safety assessment Not relevant. Chemical safety assessments for substances in this mix-

ture were not carried out.

SECTION 16: Otherinformation

Relevant H-phrases H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

H360F: May damage fertility.

H411: Toxic to aquatic life with long lasting effects.

Wording of the hazard classes Skin Corr.: Skin corrosion

> Skin Sens.: Skin sensitization Repr.: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure Aquatic Chronic: Hazardous to the aquatic environment

Eye Irrit.: Serious eye irritation Skin Irrit.: Skin irritation

Eye Dam.: Serious eye damage

GHS Classification

Classification	Evaluation
Skin Corr. 1C; H314	Calculated
Skin Sens. 1; H317	Calculated
Repr. 1B; H360F	Calculated
STOT SE 3; H335	Calculated
Aquatic Chronic 2; H411	Calculated

GHS Safety Data Sheet Commercial Product Name: FIS EM Plus 390/585/1500 S -



Component A (Mortar) Revision Date: 06.06.2023

Replaces version from: 04.06.2018 Print date: 06.06.2023 Version: 1.1 /en

Recommended restrictions	None under normal processing. Observe technical data sheet.	
Modifications of the previous ve	rsion are denoted with an asterisk (*).	
	accordance with the current status of our knowledge and experience. The ducts with a view to relevant safety requirements. This information does perties, features or qualities.	

Commercial Product Name: FIS EM Plus 390/585/1500 S -

Component B (Curing agent)

Replaces version from: 04.06.2018

Revision Date: 06.06.2023 Print date: 06.06.2023 Version: 1.1 /en

SECTION1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Commercial Product Name FIS EM Plus 390/585/1500 S - Component B (Curing agent)

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

Relevant identified uses mounting material

Recommended restrictions None under normal processing. Observe technical data sheet.

1.3 Details of the supplier of the safety data sheet

fischerwerke GmbH & Co. KG Company designation

> Klaus-Fischer-Straße 1 D-72178 Waldachtal

Telephone: +49(0)7443 12-0 FAX: +49(0)7443 12-4222 Email: info-sdb@fischer.de Internet: www.fischer.de

Marketer AnchorMark Pty. Ltd.

Unit 1, 61Waterview Close

Dandenong South VIC 3175, Australia Telephone: +61 (0) 3 97992096

FAX: +61 (0) 3 97992096

Email: info@anchormark.com.au

1.4 Emergency telephone number

Emergency telephone number FOR FIRST AID ADVICE CALL A POISONS INFORMATION CENTRE PHONE

13 11 26 - THIS NUMBER IS FOR USE IN AUSTRALIA ONLY

SECTION2: Hazardsidentification

2.1 Classification of the substance or mixture

Classification according to Reg-Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1; H317 Repr. 1B;

ulation (EC) No. 1272/2008 H360F STOT SE 3; H335 Aquatic Chronic 3; H412

2.2 Label elements

Hazard pictogram



GHS05



GHS07



GHS08

Signal word Danger

Hazardous component(s) to be

indicated on label

m-phenylenebis(methylamine), Portlandzement, 2, 4, 6-

tris(dimethylaminomethyl)phenol, benzyl alcohol, bisphenol A; 4, 4'-

isopropylidenediphenol

H314: Causes severe skin burns and eye damage. H-statement(s)

H317: May cause an allergic skin reaction.

Commercial Product Name: FIS EM Plus 390/585/1500 S -

Component B (Curing agent) Revision Date: 06.06.2023

Revision Date: 06.06.2023 Replaces version from: 04.06.2018 Version: 1.1 /en Print date: 06.06.2023

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H360F: May damage fertility.

H412: Harmful to aquatic life with long lasting effects.

P-statement(s) P201: Obtain special instructions before use.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

None known.

P310: Immediately call a POISON CENTER or doctor/physician.

2.3 Other hazards

Health hazard None known.

Particular information pertain-

ing specific risk for human / en-

vironment

Indication of danger None known.

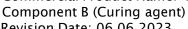
Hazard precautions None known.

SECTION3: Composition/informationoningredients

Hazardous ingredients

Ingredient		Classification	Concen- tration
m- phenylenebis(methylamine)	CAS No.: 1477-55-0	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	25.0 - 50.0 % by weight
Portlandzement	CAS No.: 65997-15-1	Skin Irrit. 2;H315 Eye Dam. 1; H318 STOT SE 3;H335	25.0 – 50.0 % by weight
aliphatic polyamine	-	Aquatic Chronic 4; H413	10.0 – 25.0 % by weight
2,4,6- tris(dimethylaminomethyl)ph enol	CAS No.: 90-72-2)	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317	2.5 – 10.0 % by weight
benzyl alcohol	CAS No.: 100-51-6	Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Irrit. 2; H319	2.5 – 10.0 % by weight

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Ingredient		GHS Classification	Concen-
			tration
4,4'-iso-	CAS No.: 80-05-7	Repr. 1B; H360F STOT SE 3;	2.5 -
propylidenediphenol		H335 Eye Dam. 1; H318 Skin	10.0 % by weight
		Sens. 1; H317 Aquatic Chronic 2;	
		H411	

SECTION4: First aid measures

4.1 Description of first aid measures

General advice If symptoms persist, call a physician.

Take off all contaminated clothing immediately.

Remove/Take off immediately all contaminated clothing.

If inhaled Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact Do not get on skin.

Wash off immediately with soap and plenty of water.

If skin irritation or rash occurs, seek medical advice/attention.

with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

If swallowed, seek medical advice immediately and show this contain-

er or label.

Rinse mouth with water. Drink 1 or 2 glasses of water.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention No data available Special medical treatment No data available

SECTION5:Firefightingmeasures

5.1 Extinguishing media

Foam

Carbon dioxide (CO2)

Water spray jet

Extinguishing media which must

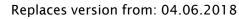
High volume water jet

not be used for safety reasons

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5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising Hazardous decomposition products formed under fire conditions.

from the substance or prepara- Sulphur oxides

tion itself, its combustion prod- nitrogen oxides (NOx)

ucts, or released gases Carbon oxides

5.3 Advice for firefighters

Special protective equipment for In the event of fire, wear self-contained breathing apparatus.

firefighting In the event of fire and/or explosion do not breathe fumes.

Additional information on fire- Fire residues and contaminated fire extinguishing water must be dis-

fighting posed of in accordance with local regulations.

SECTION6:Accidentalreleasemeasures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Environmental precautions The product should not be allowed to enter drains, water courses or

the soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Use mechanical handling equipment.

Dispose of contents/container in accordance with local regulation.

6.4 Reference to other sections

Reference to other sections See chapter: 8/13

SECTION7: Handlingandstorage

7.1 Precautions for safe handling

Advice on safe handling None under normal processing.

Precautions Observe label precautions.

Advice on protection against fire

and explosion

not required under normal use

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container re- Store in original container.

quirements Keep container tightly closed.

Store in accordance with local regulations.

Hints on storage assembly Do not store near acids.

Keep away from oxidising agents, strongly acid or alkaline materials,

as well as of amines, alcohols and water.

Storage specifications Keep container tightly closed in a dry and well-ventilated place.

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Protect from sunlight and store in well-ventilated place.

7.3 Specific end use(s)

Specific use(s) composite mortar

Further information: see technical data sheet.

<u>SECTION8:Exposurecontrols/personalprotection</u>

8.1 Control parameters

m-phenylenebis(methylamine)

Australia

Maximum admissible concentration /mg/m3	Note	Source
0.1	Sk	39

Source: 39 - WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS 18.April 2013

4,4'-isopropylidenediphenol

Europe

Long-term exposure value/	Remarks	Issuing date	Source
mg/m3			
2	Einatembare Fraktion	2017/164	24

Source: 24 - DIRECTIVE 2009/161/EU

8.2 Exposure controls

Respiratory protection No personal respiratory protective equipment normally required.

In case of inadequate ventilation wear respiratory protection.

Hand protection

butyl-rubber, Fluorinated rubber, Nitrile rubber Suitable material:

Break through time: > 120 min

Remarks: Take note of the information given by the producer concerning per-

> meability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves com-

plying with EN 374.

Reference substance: Replace when worn.

Eye protection Safety glasses

Wear suitable protective equipment. Skin and body protection

General protective and hygiene

Avoid contact with the skin and the eyes.

measures

Smoking, eating and drinking should be prohibited in the application

Wash hands before breaks and immediately after handling the prod-

uct.

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Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.

Information on environmental

protection regulations

No special environmental precautions required.

SECTION9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form paste Colour black

Odour characteristic рН not determined

Melting point [°C] / Freezing

point [°C]

not determined

Boiling point [°C] not determined

> 100 Flash point [°C]

No data available Evaporation rate $[kg/(s*m^2)]$ Flammability (solid, gas) No data available

Explosion limits [Vol-%]

Lower limit: not determined Upper limit: not determined Vapour pressure [kPa] No data available

Density [g/cm³] 1,2 - 1,3

> 20 °C Temperature:

Water solubility [g/l] not determined Partition coefficient n-octanol /

water (log P O/W)

not determined

Autoignition temperature [°C] not determined Decomposition temperature [°C] not determined

80 - 120Viscosity, dynamic [kg/(m*s)]

> Temperature: 20 °C

Risk of explosion. Not explosive

9.2 Other information

Ignition temperature [°C] not determined

Oxidizing properties no

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Miscibility with water partly miscible

SECTION 10: Stability and reactivity

10.1 Reactivity

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Thermal decomposition No decomposition if stored and applied as directed.

10.2 Chemical stability

Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid No dangerous reaction known under conditions of normal use.

10.5 Incompatible materials

Materials to avoid Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition prod-None reasonably foreseeable.

ucts

SECTION11:Toxicologicalinformation

11.1 Information on toxicological effects

Hazardous ingredients

m-phenylenebis(methylamine)

Oral toxicity [mg/kg]	Test criterion	Test species	Source
930	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
2000	LD50	rabbit	100

Source: 100 - Company data

Inhalative toxicity	Test criterion	Test species	Exposure duration	Source
[mg/l]				
0,8	LC50	rat	4 h	100

Source: 100 - Company data

Irritant effect on the respi-Inhalation of vapours in high concentration may cause ratory tract irritation of respiratory system.

Specific target organ toxicity (single exposure) [mg/kg]	Remarks	Source
	No data available	100

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Source: 100 - Company data

Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	No data available	100

Source: 100 - Company data

Portlandzement

Oral toxicity [mg/kg]	Test criterion	Remarks	Source
> 2000	LD50	literature value	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
> 2000	LD50	rabbit	Limit test 2000 mg/kg	100

Source: 100 - Company data

Inhalative toxicity	Test criterion	Test species	Note	Source
[mg/l]				
> 5	LC50	rat	Limit Test 5 g/m³	100

Source: 100 - Company data

Specific target organ toxicity (single exposure) [mg/kg]	Specific effects	Source
	Irritating to respiratory system. (dust)	100

Source: 100 - Company data

Specific target organ toxicity (repeated expo-	Remarks	Source
sure) [mg/kg]		
	Not applicable.	100

Source: 100 - Company data

Aliphatic Polyamine

Oral toxicity [mg/kg]	Test criterion	Test species	Source
> 5000	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 2000	LD50	rabbit	100

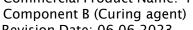
Source: 100 - Company data

2,4,6-tris(dimethylaminomethyl)phenol

Oral toxicity [mg/kg]	Test criterion	Test species	Source
2169	LD50	rat	100

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 1242	LD50	rabbit	100

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Source: 100 - Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Source
> 1673	LC50	rat	100

Source: 100 - Company data

,	Specific effects	Organs affected	Source
(single exposure) [mg/kg]			
	Eye disease, Rash, Allergies,	Eyes, Skin contact, Central ner-	100
	Neurological disorders	vous system	

Source: 100 - Company data

Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	No data available	100

Source: 100 - Company data

benzyl alcohol

Oral toxicity [mg/kg]	Test criterion	Test species	Source
1230	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
2000	LD50	rabbit	100

Source: 100 - Company data

Inhalative toxicity	Test criterion	Test species	Note	Exposure dura-	Source
[mg/l]				tion	
> 4,1	LC50	rat	OECD 403	4 h	100

Source: 100 - Company data

Specific target organ toxicity (single expo-	Remarks	Source
sure) [mg/kg]		
	No data available	100

Source: 100 - Company data

Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	No data available	100

Source: 100 - Company data

4,4'-isopropylidenediphenol

Oral toxicity [mg/kg]	Test criterion	Test species	Source
3250	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
6400	LD50	rabbit	100

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Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
> 170	LC50	rat	6 h	100

Source: 100 - Company data

Irritant effect on skin Irritating to skin and mucous membranes

Irritant effect on eyes Risk of serious damage to eyes.

Sensitization There is no data available for this product.

Carcinogenic effects No data available

Mutagenicity There is no data available for this product.

Reproduction toxicity There is no data available for this product.

Caustic effect Causes severe skin burns and eye damage.

11.2 Additional information

Other information (chapter 11.) There is no data available for this product.

SECTION12: Ecological information

12.1 Toxicity

Hazardous ingredients

Portlandzement

Toxicity to fish [mg/l]	Test criterion	Source
> 100	LC50	100

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Source
> 100	LC50	Daphnia magna (Water flea)	100

Source: 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Source
> 100	EC50	100

Source: 100 - Company data

2,4,6-tris(dimethylaminomethyl)phenol

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
222	LC50	Oncorhynchus mykiss	24 h	100
		(Rainbow trout)		
249	LC50	Cyprinus carpio (Carp)	24 h	100

Toxicity to daphnia [mg/l]	Test criterion	Exposure duration	Source
718	LC50	96 h	100

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Source: 100 - Company data

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
84	EC50	Scenedesmus subspica-	72 h	100
		tus		

Source: 100 - Company data

benzyl alcohol

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
460	LC50	Pimephales promelas	96 h	100
		(fathead minnow)		

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
230	EC50	Daphnia magna (Water flea)	48 h	100

Source: 100 - Company data

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
700	IC50:	Pseudokirchneriella subcapitata	72 h	100

Source: 100 - Company data

NOEC (daphnia) [mg/l]	Test species	Measuring method	Exposure duration	Source
51	Daphnia magna (Big	OECD 211	21 d	100
	water flea)			

Source: 100 - Company data

4,4'-isopropylidenediphenol

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
> 4	LC50	Pimephales promelas (fathead minnow)	96 h	100
9,9	LC50	Brachydanio rerio (ze- bra fish)	96 h	100
4	LC50	Oncorhynchus mykiss (rainbow trout)	96 h	100

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
3,9	EC50	Daphnia magna (Water flea)	48 h	100
10,2	EC50	Daphnia magna (Water flea)	48 h	100
> 9,2	EC50	Daphnia magna (Water flea)	48 h	100

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Exposure duration Source

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
2,5	EC50	Pseudokirchneriella subcapitata	96 h	100

Source: 100 - Company data

12.2 Persistence and degradability

Elimination and distribution There is no data available for this product.

mechanisms

Elimination in purification plant
There is no data available for this product.

Biodegradability There is no data available for this product.

12.3 Bioaccumulative potential

Bioaccumulation There is no data available for this product.

Bioconcentration factor (BCF) There is no data available for this product.

12.4 Mobility in soil

Distribution in the environment

There is no data available for this product.

Mobility There is no data available for this product.

12.5 Results of PBT and vPvB assessment

determination bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Further information on ecology No information on ecology is available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations Dispose of as hazardous waste in compliance with local and national

regulations.

Waste Code Product

080409 - waste adhesives and sealants containing organic solvents

or other dangerous substances

cured material

200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING

SEPARATELY COLLECTED FRACTIONS

Uncleaned empty packaging Dispose of as unused product.

Do not flush into surface water or sanitary sewer system.

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SECTION14:Transportinformation

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	3259	3259	3259
14.2 Description of the	AMINES, SOLID, CORRO-	AMINES, SOLID, CORRO-	Amines, solid, corrosive,
goods	SIVE, N.O.S.	SIVE, N.O.S.	n.o.s.
14.2 UN proper shipping		AMINES, SOLID, CORRO-	Amines, solid, corrosive,
name		SIVE, N.O.S.	n.o.s.
14.3 Transport hazard	8	8	8
class(es)			
14.4 Packaging group	II	II	11
Labels	8	8	8
Risk No.	80		
Category	2		
Classification Code	C8		
Tunnel restriction code	E		
Proper shipping name	m-		
	phenylenebis(methylamine)		
EmS		F-A;S-B	
Stowage category		A	

14.6 Special precautions for user

Precautions not required under normal use

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

Transport in bulk according to

not applicable Annex II of MARPOL and the IBC

Code

SECTION15:Regulatoryinformation

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Restriction of occupation. Do not use for private purposes (household).

15.2 Chemical safety assessment

Safety assessment Not relevant. Chemical safety assessments for substances in this mix-

ture were not carried out.

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SECTION 16: Other information

Relevant H-phrases H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage. H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H360F: May damage fertility.

H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects. H413: May cause long lasting harmful effects to aquatic life.

Wording of the hazard classes

Acute Tox.: Acute toxicity Skin Corr.: Skin corrosion Skin Sens.: Skin sensitization Repr.: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure Aquatic Chronic: Hazardous to the aquatic environment

Skin Irrit.: Skin irritation

Eye Dam.: Serious eye damage Eye Irrit.: Serious eye irritation

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification	Evaluation
Acute Tox. 4; H332	Calculated
Skin Corr. 1B; H314	Calculated
Skin Sens. 1; H317	Calculated
Repr. 1B; H360F	Calculated
STOT SE 3; H335	Calculated
Aquatic Chronic 3; H412	Calculated

Recommended restrictions

None under normal processing. Observe technical data sheet.

Modifications of the previous version are denoted with an asterisk (*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.