

# GHS Safety Data Sheet

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

Component B (Curing agent)

Revision Date: 04.12.2018

Version: 1.0 /en

Replaces version from: -

Print date: 04.12.2018

## SECTION 1: 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

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](mailto:info-sdb@fischer.de)  
Internet: [www.fischer.de](http://www.fischer.de)

### Marketer

BLACKS FASTENERS LTD  
34 Nga Mahi Road, Sockburn  
Christchurch 8042 (postal code) New Zealand  
Telephone: 0800 652 463  
FAX: 0800 652 464  
Email: [sockburn@blacksfasteners.co.nz](mailto:sockburn@blacksfasteners.co.nz)

### 1.4 Emergency telephone number

Emergency telephone number +49(0)6132-84463 (24h)  
Our 24-hour contact within NZ is 0800 764 766 (0800 POISON)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1; H317 Repr. 1B; 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

H-statement(s)

H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.

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P-statement(s)

H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H360F: May damage fertility.  
H412: Harmful to aquatic life with long lasting effects.

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

## 2.3 Other hazards

Health hazard None known.  
Particular information pertaining specific risk for human / environment None known.  
Indication of danger None known.  
Hazard precautions None known.

## SECTION3:Composition/informationoningredients

### Hazardous ingredients

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                         |   |
|-------------------------|---|
| General advice          | If symptoms persist, call a physician.<br>Take off all contaminated clothing immediately.<br>Remove/Take off immediately all contaminated clothing.                   |
| If inhaled              | Move to fresh air.<br>If symptoms persist, call a physician.  |
| In case of skin contact | Do not get on skin.<br>Wash off immediately with soap and plenty of water.<br>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.<br>Obtain medical attention. |
| If swallowed            | If swallowed, seek medical advice immediately and show this container or label.<br>Rinse mouth with water. Drink 1 or 2 glasses of water.<br>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 |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|   |  |
|---|--|
| Suitable extinguishing media                                  | Dry powder<br>Foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Water spray jet |
| Extinguishing media which must not be used for safety reasons | High volume water jet  |

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### 5.2 Special hazards arising from the substance or mixture

|   |  |
|---|--|
| Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases | Hazardous decomposition products formed under fire conditions.<br>Sulphur oxides<br>nitrogen oxides (NOx)<br>Carbon oxides |
|---|--|

### 5.3 Advice for firefighters

|   |   |
|---|---|
| Special protective equipment for firefighting | In the event of fire, wear self-contained breathing apparatus.<br>In the event of fire and/or explosion do not breathe fumes. |
| Additional information on firefighting        | Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.             |

## SECTION 6: Accidental release measures

### 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.<br>Dispose of contents/container in accordance with local regulation. |
|-------------------------|--|

### 6.4 Reference to other sections

|                             |                   |
|-----------------------------|-------------------|
| Reference to other sections | See chapter: 8/13 |
|-----------------------------|-------------------|

## SECTION 7: Handling and storage

### 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 requirements | Store in original container.<br>Keep container tightly closed.<br>Store in accordance with local regulations.                               |
| Hints on storage assembly                | Do not store near acids.<br>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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

m-phenylenebis(methylamine)

Australia

| Maximum admissible concentration /mg/m <sup>3</sup> | 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/<br>mg/m <sup>3</sup> | Remarks              | Issuing date | Source |
|--|----------------------|--------------|--------|
| 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

Suitable material:

butyl-rubber, Fluorinated rubber, Nitrile rubber

Break through time:

> 120 min

Remarks:

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves complying with EN 374.

Reference substance:

Replace when worn.

Eye protection

Safety glasses

Skin and body protection

Wear suitable protective equipment.

General protective and hygiene measures

Avoid contact with the skin and the eyes.

Smoking, eating and drinking should be prohibited in the application area.

Wash hands before breaks and immediately after handling the product.

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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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                   |
|---|-------------------|
| Form  | paste             |
| Colour  | black             |
| Odour   | characteristic    |
| pH  | not determined    |
| Melting point [°C] / Freezing point [°C]            | not determined    |
| Boiling point [°C]                                  | not determined    |
| Flash point [°C]                                    | > 100             |
| Evaporation rate [kg/(s*m <sup>2</sup> )]           | No data available |
| 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/cm <sup>3</sup> ]                        | 1,2 - 1,3         |
| Temperature:  | 20 °C             |
| 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    |
| Viscosity, dynamic [kg/(m*s)]                       | 80 - 120          |
| 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

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 products None reasonably foreseeable.

## SECTION 11: Toxicological information

### 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 [mg/l] | Test criterion | Test species | Exposure duration | Source |
|----------------------------|----------------|--------------|-------------------|--------|
| 0,8                        | LC50           | rat          | 4 h               | 100    |

Source: 100 - Company data

Irritant effect on the respiratory tract Inhalation of vapours in high concentration may cause 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 [mg/l] | Test criterion | Test species | Note                          | Source |
|----------------------------|----------------|--------------|-------------------------------|--------|
| > 5                        | LC50           | rat          | Limit Test 5 g/m <sup>3</sup> | 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 exposure) [mg/kg] | Remarks         | Source |
|--|-----------------|--------|
|  | 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    |

Source: 100 - Company data

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

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 [mg/l] | Test criterion | Test species | Note     | Exposure duration | Source |
|----------------------------|----------------|--------------|----------|-------------------|--------|
| > 4,1                      | LC50           | rat          | OECD 403 | 4 h               | 100    |

Source: 100 - Company data

| Specific target organ toxicity (single exposure) [mg/kg] | Remarks           | Source |
|--|-------------------|--------|
|  | 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    |

Source: 100 - Company data

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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.

## SECTION 12: 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 (Rainbow trout) | 24 h              | 100    |
| 249                     | LC50           | Cyprinus carpio (Carp)              | 24 h              | 100    |

Source: 100 - Company data

| 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/l] | Test criterion | Test species            | Exposure duration | Source |
|--------------------------|----------------|-------------------------|-------------------|--------|
| 84                       | EC50           | Scenedesmus subspicatus | 72 h              | 100    |

Source: 100 - Company data

## benzyl alcohol

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

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/l] | 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 water flea) | OECD 211         | 21 d              | 100    |

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 (zebra 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    |

Source: 100 - Company data

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| Toxicity to algae [mg/l] | 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 mechanisms There is no data available for this product.

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 determination This preparation contains no substance considered to be persistent, 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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## SECTION 14: Transport information

|                                 | Land transport ADR/RID   | Marine transport IMDG  | Air transport ICAO/IATA  |
|---------------------------------|--|--|--|
| 14.1 UN-No                      | 3259   | 3259   | 3259   |
| 14.2 Description of the goods   | AMINES, SOLID, CORROSIVE, N.O.S.   | AMINES, SOLID, CORROSIVE, N.O.S.   | Amines, solid, corrosive, n.o.s.   |
| 14.2 UN proper shipping name    |  | AMINES, SOLID, CORROSIVE, N.O.S.   | Amines, solid, corrosive, n.o.s.   |
| 14.3 Transport hazard class(es) | 8  | 8  | 8  |
| 14.4 Packaging group            | II   | II   | II   |
| Labels                          | 8<br> | 8<br> | 8<br> |
| 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

## SECTION 15: Regulatory information

### 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 mixture were not carried out.

# GHS Safety Data Sheet

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

Component B (Curing agent)

Revision Date: 04.12.2018

Version: 1.0 /en



Replaces version from: -

Print date: 04.12.2018

## 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.