

Safety Data Sheet

According to 1907/ 2006/EC, Article 31

Trade Name : Clear Sealer Polyester M200 With Accelerator & Catalyst

Printing date 01.06.2020



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

- **Product identifier**
- **Trade name: Clear Sealer Polyester M200 With Accelerator & Catalyst**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture Coating**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
4M For Coatings co.
Industry Area , Area G, Block C9
Port Said Governorate
Egypt
Ch.M_Loutfy@4mcoatings.com
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:** During normal opening times: +2 01099354294

2 Hazards identification

- **Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1263 /2012**
 -  **Xn; Harmful**
 R20-48/20-63: Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child.
 -  **Xi; Irritant**
 R36/38: Irritating to eyes and skin.
 R10: Flammable.
 - **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
-
- **Label elements**
 - **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
 - **Code letter and hazard designation of product:**



Xn Harmful

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· **Hazard-determining components of labelling:**

Unsaturated Polyester resin

· **Risk phrases:**

10 Flammable.

20 Harmful by inhalation.

36/38 Irritating to eyes and skin.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

63 Possible risk of harm to the unborn child.

· **Safety phrases:**

1/2 Keep locked up and out of the reach of children.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

36/37/39 Wear suitable protective clothing, gloves and eyeface protection.

46 If swallowed, seek medical advice immediately and show this container or label.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

	Unsaturated Polyester resin	✘ Xn R20-48/20-63 ✘ Xi R36/38 R10 Repr. Cat. 3	> 25 – ≤ 50%
7727-43-7	barium sulphate, natural		> 10 – ≤ 25%
471-34-1	calcium carbonate		> 10 – ≤ 25%
100-42-5	styrene	✘ Xn R20-48/20-63 ✘ Xi R36/38 R10 Repr. Cat. 3	≤ 2.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** *If symptoms persist consult doctor.*
- **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Special hazards arising from the substance or mixture** *No further relevant information available.*
- **Advice for firefighters**
- **Protective equipment:** *Mouth respiratory protective device.*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:**
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.*
- **Reference to other sections**
*See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.*

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** *Ensure good ventilation/exhaustion at the workplace.*
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

7727-43-7 barium sulphate, natural

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	Long-term value: 5* mg/m ³ *inhalable fraction; E
WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust

471-34-1 calcium carbonate

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	TLV withdrawn

100-42-5 styrene

PEL (USA)	Long-term value: 100 ppm Ceiling limit: 200; 600* ppm *5-min peak in any 3 hrs
REL (USA)	Short-term value: 425 mg/m ³ , 100 ppm Long-term value: 215 mg/m ³ , 50 ppm
TLV (USA)	Short-term value: 170 mg/m ³ , 40 ppm Long-term value: 85 mg/m ³ , 20 ppm BEI
WEL (Great Britain)	Short-term value: 1080 mg/m ³ , 250 ppm Long-term value: 430 mg/m ³ , 100 ppm

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· **Ingredients with biological limit values:**

100-42-5 styrene

BEI (USA)	400 mg/g creatinine Medium: urine Time: end of shift Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)
	0.2 mg/L Medium: venous blood Time: end of shift Parameter: Styrene (semi-quantitative)

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Pasty
· Colour:	According to product specification
· Odour:	Aromatic
· Odour threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	145 – 148 °C

· **Flash point:** 24 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 490 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

· Lower:	1.1 Vol %
· Upper:	6.1 Vol %

· **Vapour pressure at 20 °C:** 0.6 hPa

· **Density at 20 °C:** $\geq 1.8 \text{ g/cm}^3$

· Bulk density:	$\geq 1,800 \text{ kg/m}^3$
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

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· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	≥ 1,200,000 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	2.0 %
VOC (EC)	2.00 %
Solids content:	67.5 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

Unsaturated Polyester resin		
Oral	LD50	5,000 mg/kg (rat)
471-34-1 calcium carbonate		
Oral	LD50	6,450 mg/kg (rat)
100-42-5 styrene		
Oral	LD50	5,000 mg/kg (rat)
Inhalative	LC50/4 h	24 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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Harmful
Irritant

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|-------------------------|
| · UN-Number | |
| · ADR, IMDG, IATA | UN1263 |
| · UN proper shipping name | |
| · ADR | 1263 PAINT |
| · IMDG | PAINT, MARINE POLLUTANT |
| · IATA | PAINT |




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<ul style="list-style-type: none"> · <i>Transport hazard class(es)</i> · <i>ADR, IATA</i> 	
	
<ul style="list-style-type: none"> · <i>Class</i> · <i>Label</i> 	<p>3 Flammable liquids. 3</p>
<hr/>	
<ul style="list-style-type: none"> · <i>IMDG</i> 	
 	
<ul style="list-style-type: none"> · <i>Class</i> · <i>Label</i> 	<p>3 Flammable liquids. 3</p>
<hr/>	
<ul style="list-style-type: none"> · <i>Packing group</i> · <i>ADR, IMDG, IATA</i> 	<p>III</p>
<hr/>	
<ul style="list-style-type: none"> · <i>Environmental hazards:</i> · <i>Marine pollutant:</i> 	<p>Symbol (fish and tree)</p>
<hr/>	
<ul style="list-style-type: none"> · <i>Special precautions for user</i> · <i>Danger code (Kemler):</i> · <i>EMS Number:</i> 	<p>Warning: Flammable liquids. 30 F-E,S-E</p>
<hr/>	
<ul style="list-style-type: none"> · <i>Transport in bulk according to Annex II of Marpol and the IBC Code</i> 	<p>Not applicable.</p>
<hr/>	
<ul style="list-style-type: none"> · <i>Transport/Additional information:</i> 	
<hr/>	
<ul style="list-style-type: none"> · <i>ADR</i> · <i>Limited quantities (LQ)</i> · <i>Excepted quantities (EQ)</i> 	<p>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</p>
<ul style="list-style-type: none"> · <i>Transport category</i> · <i>Tunnel restriction code</i> 	<p>3 D/E</p>
<hr/>	
<ul style="list-style-type: none"> · <i>IMDG</i> · <i>Limited quantities (LQ)</i> · <i>Excepted quantities (EQ)</i> 	<p>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</p>

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15 Regulatory information

- *Safety, health and environmental regulations/legislation specific for the substance or mixture*
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**



Xn Harmful

- **Hazard-determining components of labelling:**
Unsaturated Polyester resin
- **Risk phrases:**
 - 10 Flammable.
 - 20 Harmful by inhalation.
 - 36/38 Irritating to eyes and skin.
 - 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 - 63 Possible risk of harm to the unborn child.
- **Safety phrases:**
 - 1/2 Keep locked up and out of the reach of children.
 - 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
 - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - 46 If swallowed, seek medical advice immediately and show this container or label.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - R10 Flammable.
 - R20 Harmful by inhalation.
 - R36/38 Irritating to eyes and skin.
 - R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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4M COATINGS

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R63 Possible risk of harm to the unborn child.

· Department issuing SDS: Product safety department

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