

# **ITW** Engineered Polymers

## SAFETY DATA SHEET MA830 ADHESIVE

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

#### 1.1. Product identifier

Product name MA830 ADHESIVE

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

Identified uses Adhesive.

#### 1.3. Details of the supplier of the safety data sheet

Supplier ITW Engineered Polymers  
Bay 150  
Shannon Industrial Estate  
Shannon  
Co. Clare

+353 (0)61 471 299

+353 (0)61 471 285

mail@itwep.com

#### 1.4. Emergency telephone number

Emergency telephone +44(0)1235 239 670 (24h)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xi;R36/37/38. R43. F;R11.

#### 2.2. Label elements

##### Pictogram



##### Signal word

Danger

##### Hazard statements

H225 Highly flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p>
<b>Contains</b>	METHYL METHACRYLATE, 2-PROPENOIC ACID, 2-METHYL-2-HYDROXYETHYL ESTER, PHOSPHATE, METHACRYLIC ACID
<b>Supplementary precautionary statements</b>	<p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>METHYL METHACRYLATE</b>		<b>60-100%</b>
CAS number: 80-62-6	EC number: 201-297-1	REACH registration number: 01-2119452498-28-0000
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Flam. Liq. 2 - H225	F;R11 R43 Xi;R37/38	
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
STOT SE 3 - H335		

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<b>2-PROPENOIC ACID,2-METHYL-2-HYDROXYETHYL ESTER, PHOSPHATE</b>		<b>1-5%</b>
CAS number: 52628-03-2	EC number: 258-053-2	
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1A - H317	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R38,R41.	
<b>METHACRYLIC ACID</b>		<b>1-5%</b>
CAS number: 79-41-4	EC number: 201-204-4	REACH registration number: 01-2119463884-26-0000
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	<b>Classification (67/548/EEC or 1999/45/EC)</b> C;R35 Xn;R21/22	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General information</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation</b>	Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Rinse with water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide or dry powder.
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### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Forms explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Warn everybody of potential hazards and evacuate if necessary.

### 5.3. Advice for firefighters

**Protective actions during firefighting** May form explosive or toxic mixtures with air. Keep upwind. Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material. Fight advanced or massive fires from safe distance or protected location.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Do not touch or walk into spilled material. If leakage cannot be stopped, evacuate area. Eliminate all sources of ignition. Provide adequate ventilation.

### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Use non sparking handtools and explosion-proof electric equipment. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid heat, flames and other sources of ignition. Use non sparking handtools and explosion-proof electric equipment. Do not breathe vapour/spray. Avoid contact with skin, eyes and clothing. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Keep container tightly closed. Wash promptly if skin becomes contaminated. Discard contaminated shoes and clothing.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

METHYL METHACRYLATE

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Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m<sup>3</sup>

### METHACRYLIC ACID

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 40 ppm 143 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

**Ingredient comments** WEL = Workplace Exposure Limits

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

#### Hand protection

Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber.

#### Other skin and body protection

Wear apron or protective clothing in case of contact.

#### Hygiene measures

Provide eyewash station and safety shower.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Paste.
<b>Colour</b>	White/off-white.
<b>Odour</b>	Aromatic.
<b>Melting point</b>	n/d°C
<b>Initial boiling point and range</b>	n/d°C @
<b>Flash point</b>	10°C TCC (Tag closed cup).
<b>Vapour density</b>	>1

### 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of <50 mixed g/litre.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Strong oxidising agents. Strong reducing agents. Acids. Alkalis.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

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### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** May polymerise. Avoid heat.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Oxygen-free atmospheres Corrosive storage.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong reducing agents. Acids. Alkalis - organic. Alkalis - inorganic. Copper. Iron.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of the following substances: Carbon. Nitrogen. Hydrocarbons. Acrolein Metal Fumes Hydrogen chloride (HCl). Acids - organic. Aldehydes. Alcohols. Phosphoric Compounds

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 20,008.0

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 44,017.61

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

**Ingestion** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Burning sensation in mouth. Nausea, vomiting.

**Skin contact** May cause skin irritation/eczema. May cause sensitisation by skin contact. May be absorbed through the skin.

**Eye contact** May cause severe eye irritation. Irritation, burning, lachrymation, blurred vision after liquid splash.

**Route of entry** Skin and/or eye contact Skin absorption Inhalation

## SECTION 12: Ecological Information

**Ecotoxicity** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** Avoid the spillage or runoff entering drains, sewers or watercourses.

### 12.5. Results of PBT and vPvB assessment

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**Results of PBT and vPvB assessment**      This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects**      Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information**      When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods**      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class**      08 04 99

## SECTION 14: Transport information

**General**      No other information known.

### 14.1. UN number

**UN No. (ADR/RID)**      1133

**UN No. (IMDG)**      1133

**UN No. (ICAO)**      1133

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)**      ADHESIVES

**Proper shipping name (IMDG)**      ADHESIVES

**Proper shipping name (ICAO)**      ADHESIVES

**Proper shipping name (ADN)**      ADHESIVES

### 14.3. Transport hazard class(es)

**ADR/RID class**      3

**ADR/RID subsidiary risk**

**ADR/RID label**      3

**IMDG class**      3

**IMDG subsidiary risk**

**ICAO class/division**      3

**ICAO subsidiary risk**

**Transport labels**

### 14.4. Packing group

**ADR/RID packing group**      II

**IMDG packing group**      II

**ICAO packing group**      II

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### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS F-E, S-D

Emergency Action Code 3YE

Hazard Identification Number 33  
(ADR/RID)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.

## SECTION 15: Regulatory information

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

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended).
<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
<b>Guidance</b>	Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>General information</b>	Only trained personnel should use this material.
<b>Revision date</b>	11/02/2015
<b>Revision</b>	9
<b>Supersedes date</b>	05/12/2014
<b>Risk phrases in full</b>	R11 Highly flammable. R21/22 Harmful in contact with skin and if swallowed. R35 Causes severe burns. R36/37/38 Irritating to eyes, respiratory system and skin. R37 Irritating to respiratory system. R37/38 Irritating to respiratory system and skin. R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact.



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### Hazard statements in full

H225 Highly flammable liquid and vapour.  
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.  
H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# **ITW** Engineered Polymers

## SAFETY DATA SHEET MA830 ACTIVATOR

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

#### 1.1. Product identifier

Product name MA830 ACTIVATOR

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

Identified uses Activator.

#### 1.3. Details of the supplier of the safety data sheet

Supplier ITW Engineered Polymers  
Bay 150  
Shannon Industrial Estate  
Shannon  
Co. Clare

+353 (0)61 471 299

+353 (0)61 471 285

mail@itwep.com

#### 1.4. Emergency telephone number

Emergency telephone +44(0)1235 239 670 (24h)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xi;R36/38. R43. R52/53.

Human health Contains epoxy constituents. May produce an allergic reaction.

#### 2.2. Label elements

##### Pictogram



Signal word Warning

Hazard statements  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
<b>Contains</b>	Reaction product of Epichlorohydrin & Bisphenol A, BENZOYL PEROXIDE
<b>Supplementary precautionary statements</b>	<p>P261 Avoid breathing vapour/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p>

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

<b>Reaction product of Epichlorohydrin &amp; Bisphenol A</b> CAS number: 25085-99-8                      EC number: 500-033-5	<b>10-30%</b>
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36,R38. N;R51/53. R43.
<b>BENZOYL PEROXIDE</b> CAS number: 94-36-0                      EC number: 202-327-6	<b>10-30%</b>
<b>Classification</b> Org. Perox. B - H241 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	<b>Classification (67/548/EEC or 1999/45/EC)</b> E;R3 O;R7 Xi;R36 R43
<b>p(BD/MMA/STY)</b> CAS number: 25053-09-2	<b>10-30%</b>
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36/38. R43.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

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<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Get medical attention immediately. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with carbon dioxide or dry powder. Do not use water jet as an extinguisher, as this will spread the fire.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> . Oxides of carbon. Oxides of nitrogen.
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### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and contact with skin and eyes.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For waste disposal, see section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Usage precautions</b>	Keep away from heat, sparks and open flame. Avoid contact with skin and eyes.
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### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 0°C and 40°C.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### BENZOYL PEROXIDE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**

Wear chemical splash goggles.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. (EN 374)

**Other skin and body protection**

Wear chemical protective suit.

**Hygiene measures**

Provide eyewash station and safety shower. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

**Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Viscous liquid.
<b>Colour</b>	Grey.
<b>Odour</b>	Slight.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.

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<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.0-1.25 @ °C
<b>Solubility(ies)</b>	Slightly soluble in water.
<b>Auto-ignition temperature</b>	Not determined.

### 9.2. Other information

<b>Other information</b>	Not available.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of <50 g/litre.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	The following materials may react violently with the product: Strong oxidising agents.
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### 10.2. Chemical stability

<b>Stability</b>	Unstable.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not known.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat. Avoid contact with the following materials: Strong oxidising agents. Avoid contact with acids and alkalis.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong alkalis. Strong oxidising agents. Strong acids.
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### 10.6. Hazardous decomposition products

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Inhalation</b>	Irritating to respiratory system. Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.
<b>Ingestion</b>	May cause internal injury. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Gastrointestinal symptoms, including upset stomach.
<b>Skin contact</b>	Irritating to skin. Prolonged and frequent contact may cause redness and irritation. May cause sensitisation by skin contact.
<b>Eye contact</b>	Irritating to eyes. Repeated exposure may cause chronic eye irritation.
<b>Acute and chronic health hazards</b>	The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact
<b>Target organs</b>	Eyes Skin Respiratory system, lungs

## SECTION 12: Ecological Information

## MA830 ACTIVATOR

**Ecotoxicity** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

**Toxicity** Not determined.

### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not determined.

### 12.4. Mobility in soil

**Mobility** The product is miscible with water and may spread in water systems.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** Not known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

No information required.

**UN No. (IMDG)**

**UN No. (ICAO)**

### 14.2. UN proper shipping name

No information required.

### 14.3. Transport hazard class(es)

No information required.

**ADR/RID class**

**ADR/RID subsidiary risk**

**ADR/RID label**

**IMDG class**

**IMDG subsidiary risk**

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ICAO class/division

ICAO subsidiary risk

Transport labels

### 14.4. Packing group

No information required.

ADR/RID packing group

IMDG packing group

ICAO packing group

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

No information required.

EmS

Emergency Action Code

Hazard Identification Number  
(ADR/RID)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to No information required.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision date 11/02/2015

Revision 9

Supersedes date 15/11/2012



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### Risk phrases in full

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.  
R36 Irritating to eyes.  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R7 May cause fire.

### Hazard statements in full

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.