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

### 1.1. Product identifier

**Product name**
MA8110 Gray 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 Performance Polymers
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
mail@itwpp.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 (EC 1272/2008)**

**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

### 2.2. Label elements

**Pictogram**

**Signal word**
Danger

**Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
MA8110 Gray Activator

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapour/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains

METHYL METHACRYLATE, Poly(oxy-1,2-ethanediyl), α,α'-(1-methylethylidene)di-4,1-phenylene]bis[ω-[(2-methyl-1-oxo-2-propen-1-yl)oxy]

Supplementary precautionary statements

P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P302+P352 IF ON SKIN: Wash with plenty of water.
P312 Call a POISON CENTER/doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>METHYL METHACRYLATE</th>
<th>60-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 80-62-6</td>
<td>EC number: 201-297-1</td>
</tr>
<tr>
<td>REACH registration number: 01-2119452498-28-0000</td>
<td></td>
</tr>
</tbody>
</table>

Classification

Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
STOT SE 3 - H335
MA8110 Gray Activator

### 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine

| CAS number: 34562-31-7 |

**Classification**
- Acute Tox. 4 - H302
- Acute Tox. 4 - H312
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319

### Poly(oxy-1,2-ethanediyl), α,α'-(1-methylethylidene)di-4,1-phenylene]bis[ω-[(2-methyl-1-oxo-2-propen-1-yl)oxy]

| CAS number: 41637-38-1 |

**Classification**
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319
- Skin Sens. 1 - H317
- STOT SE 3 - H335
- Aquatic Chronic 4 - H413

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation**

If inhaled: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist.

**Ingestion**

If swallowed: Do not induce vomiting. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.

**Skin contact**

If on skin: Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes and get medical attention.

**Eye contact**

If in eyes: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.

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

**Inhalation**

May cause respiratory irritation. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: May cause nausea, headache, dizziness and intoxication.

**Skin contact**

This product is strongly irritating. May cause an allergic skin reaction.

**Eye contact**

Severe irritation, burning, tearing and blurred vision. Overexposure may cause the following adverse effects: Corneal damage.

**4.3. Indication of any immediate medical attention and special treatment needed**

### SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media**

Use foam, carbon dioxide or dry powder to extinguish.

**Unsuitable extinguishing media**

Do not use water, if avoidable.
MA8110 Gray Activator

5.2. Special hazards arising from the substance or mixture
Specific hazards
Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

5.3. Advice for firefighters
Protective actions during firefighting
In case of fire: Evacuate area. Use cold water spray to cool fire exposed containers to minimise risk of rupture. Do not enter storage areas or confined spaces unless adequately ventilated. Control run-off water by containing and keeping it out of sewers and watercourses. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

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
Evacuate area. Keep unnecessary and unprotected personnel away from the spillage.

6.2. Environmental precautions
Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Absorb spillage with sand or other inert absorbent. Eliminate all sources of ignition. Use non sparking handtools and explosion-proof electric equipment. Ventilate area. Wear chemical gloves and protective gear to avoid skin contact. Wipe spills with cloth. Incinerate or dispose wastes according to local regulations.

6.4. Reference to other sections
Reference to other sections
For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Provide adequate ventilation. Avoid breathing gas, fume, vapours or spray. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.

Advice on general occupational hygiene
Wash skin thoroughly after handling.

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. Do not store near heat sources or expose to high temperatures. Store away from incompatible materials (see Section 10).

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
Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³
Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³
MA8110 Gray Activator

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment

Eye/face protection
Wear eye protection. Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
Wear protective gloves. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 8 hours.

Other skin and body protection
Wear apron or protective clothing in case of contact.

Hygiene measures
Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection
Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is ‘CE’-marked. Wear a suitable dust mask. Gas filter, type A2. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Paste.

Colour
Grey.

Flash point
10°C TCC (Tag closed cup).

Upper/lower flammability or explosive limits
: 2.1% and 12.5%

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity
See Section 10.3 (Possibility of hazardous reactions) for further information.

10.2. Chemical stability

Stability
Unstable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
May polymerise.

10.4. Conditions to avoid

Conditions to avoid
Extreme heat, sparks and open flame. Incompatible materials, oxidisers and oxidising conditions.

10.5. Incompatible materials
MA8110 Gray Activator

Materials to avoid
Oxidising agents (such as peroxides), reducing agents, acids, bases, azo-compounds, catalytic metals (such as copper, iron), halogens. Free radical initiators. Oxygen scavengers.

10.6. Hazardous decomposition products
Hazardous decomposition products
Vapours may be ignited by a spark, a hot surface or an ember.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral
ATE oral (mg/kg) 200,000.0

Acute toxicity - dermal
ATE dermal (mg/kg) 440,000.0

Inhalation
This product is moderately irritating. Gas or vapour is harmful on prolonged exposure or in high concentrations. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin contact
Prolonged or repeated exposure may cause severe irritation. May cause an allergic skin reaction.

Eye contact
Causes severe skin burns and eye damage.

Route of entry
Inhalation Ingestion Skin and/or eye contact

SECTION 12: Ecological Information

Ecotoxicity
No information available.

12.1. Toxicity
Toxicity
No data available.

12.2. Persistence and degradability

Persistence and degradability
No data available.

12.3. Bioaccumulative potential
Bioaccumulative potential
No information available.

12.4. Mobility in soil
Mobility
No data available.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
No data available.

12.6. Other adverse effects
Other adverse effects
Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
MA8110 Gray Activator

General information
The generation of waste should be minimised or avoided wherever possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Dispose of waste product or used containers in accordance with local regulations.

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 09

SECTION 14: Transport information

14.1. UN number
UN No. (ADR/RID) 1133
UN No. (IMDG) 1133
UN No. (ICAO) 1133
UN No. (ADN) 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 classification code F1
ADR/RID label 3
IMDG class 3
ICAO class/division 3
ADN class 3

Transport labels

14.4. Packing group
ADR/RID packing group II
IMDG packing group II
ADN packing group II
ICAO packing group II

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.
MA8110 Gray Activator

14.6. Special precautions for user

EmS F-E, S-D
ADR transport category 2
Emergency Action Code +3YE
Hazard Identification Number 33
(ADR/RID)
Tunnel restriction code (D/E)

14.7. Transport in bulk according to 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


15.2. Chemical safety assessment

SECTION 16: Other information

Revision date 05/04/2018
Revision 1
Supersedes date 26/08/2016
SDS number 20771
Hazard statements in full

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
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H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H413 May cause long lasting harmful effects to aquatic life.

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.