

# SAFETY DATA SHEET MA310 ADHESIVE

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

## 1.1. Product identifier

Product name MA310 ADHESIVE

Product number Z0004

REACH registration notes CAS 80-62-6: 01-2119452498-28-XXXX

## 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 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 Skin Sens. 1 - H317 STOT SE 3 - H335

**Environmental hazards** Aquatic Chronic 3 - H412

### 2.2. Label elements

## **Pictogram**





Signal word Danger

## **MA310 ADHESIVE**

Hazard statements H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

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

H412 Harmful to aquatic life with long lasting effects.

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.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.

Contains METHYL METHACRYLATE, MALEIC ACID, bis[4-(2,3-

EPOXYPROPOXY)PHENYL]PROPANE

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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.
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.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

## 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

METHYL METHACRYLATE 30-60%

CAS number: 80-62-6 EC number: 201-297-1 REACH registration number: 01-

2119452498-28-0000

Classification

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

## **MA310 ADHESIVE**

Poly (acrylonitrile-butadiene-styrene) 5-10%

CAS number: 9003-56-9

Classification

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

MALEIC ACID 1-5%

CAS number: 110-16-7 EC number: 203-742-5

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

2,6-DITERTIARYBUTYL-PARA-CRESOL

CAS number: 128-37-0 M factor (Chronic) = 1

Classification

Aquatic Chronic 1 - H410

## bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE

<1%

1-5%

Classification

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

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

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

General information Do not breathe vapour/spray. Avoid contact with skin and eyes. In case of accident or if you

feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation** Move affected person to fresh air at once. When breathing is difficult, properly trained

personnel may assist affected person by administering oxygen. Get medical attention if any

discomfort continues.

**Ingestion** Do not induce vomiting. Give plenty of water to drink. Never give anything by mouth to an

unconscious person. Do not induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical

attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes and get medical attention. Get medical attention if irritation persists after washing.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

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

Specific hazards Avoid breathing fire gases or vapours. Highly flammable Vapours are heavier than air and

may spread near ground and travel a considerable distance to a source of ignition and flash

back. Polymerises easily with evolution of heat.

## 5.3. Advice for firefighters

Protective actions during firefighting

Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Cool containers exposed to flames with water until well after the fire is out. Control run-off

water by containing and keeping it out of sewers and watercourses.

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 Highly flammable. Warn everybody of potential hazards and evacuate if necessary. Provide

adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Do not breathe

vapour. Avoid contact with skin and eyes.

## 6.2. Environmental precautions

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

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

Use only in well-ventilated areas. Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Take precautionary measures against static discharges. Storage tanks and other containers must be earthed. No smoking, sparks, flames or other sources of ignition near spillage. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Do not use in confined spaces without adequate ventilation and/or respirator. Good personal hygiene procedures should be implemented.

#### 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. 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 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.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Use protective gloves. It is recommended that gloves are made of the following material: Butyl rubber. 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 chemical protective suit.

Hygiene measures

Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving workplace.

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#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

## **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

Appearance Paste.

Colour White/off-white.

Odour Slight pungent.

Melting point -47.7°C

Initial boiling point and range 100.5°C @

Flash point 10°C

**Evaporation rate** 3 (butyl acetate =1)

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 12.5 Lower flammable/explosive limit: 2.1

Vapour pressure 28mmHg @ °C

Vapour density 3.5

Relative density .93 - 1.05 @ @ 20 °C °C

9.2. Other information

Other information Not available.

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Strong oxidising agents. Strong reducing

agents. Alkalis.

10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Not available. May polymerise. Avoid heat.

10.4. Conditions to avoid

Conditions to avoid Heating may generate flammable vapours. Vapours may form explosive mixtures with air.

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods

of time. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Avoid contact with the following materials: Oxidising agents. Reducing agents. Alkalis -

inorganic. Alkalis - organic.

## 10.6. Hazardous decomposition products

## **MA310 ADHESIVE**

Hazardous decomposition

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire or high temperatures create: Vapours/gases/fumes of: Fumaric acid

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity - oral

**ATE oral (mg/kg)** 702,741.0

Inhalation Harmful by inhalation. Gas or vapour in high concentrations may irritate the respiratory

system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous

system depression.

**Ingestion** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal

tract. May cause stomach pain or vomiting.

**Skin contact** May be absorbed through the skin. Irritating to skin. Prolonged contact may cause redness,

irritation and dry skin. May cause sensitisation by skin contact. May cause sensitisation or

allergic reactions in sensitive individuals.

Eye contact Irritating to eyes. A single exposure may cause the following adverse effects: Corneal

damage.

Target organs Prolonged or repeated exposure may cause the following adverse effects: May cause damage

to the liver and kidneys. Heart & cardiovascular system Respiratory system, lungs Central

nervous system

Poly (acrylonitrile-butadiene-styrene)

Acute toxicity - oral

ATE oral (mg/kg) 500.0

bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE

Carcinogenicity

IARC Group 3 Not classifiable as to its carcinogenicity to humans.

1,1,2-TRICHLOROETHANE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

ATE inhalation (gases

ses 4,500.0

ppm)

ATE inhalation (vapours

mg/l)

11.0

ATE inhalation

1.5

(dusts/mists mg/l)

## **MA310 ADHESIVE**

## Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

## **SECTION 12: Ecological Information**

**Ecotoxicity** Avoid release to the 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 LC50/96h/fathead minnows = 150 ppm, LC50/96h/bluegill sunfish = 232ppm.

12.4. Mobility in soil

Mobility Do not discharge into drains or watercourses or onto the ground. Biochemical oxygen demand

within 5 days (BOD5) = 0.14g/g - 0.90 g/g; Theoretical oxygen demand (ThOD) = 1.92g/g

#### 12.5. Results of PBT and vPvB assessment

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 09

## **SECTION 14: Transport information**

#### 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

**ADHESIVES** 

(ADR/RID)

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 label 3
IMDG class 3
ICAO class/division 3

#### Transport labels



## 14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group III

## 14.5. Environmental hazards

## 14.6. Special precautions for user

EmS F-E, S-D

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

**EU legislation** 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).

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision date 05/04/2018

Revision 18

Supersedes date 08/02/2018

Hazard statements in full H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects. 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.



# SAFETY DATA SHEET MA310 ACTIVATOR

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

#### 1.1. Product identifier

Product name MA310 ACTIVATOR

REACH registration notes CAS 80-62-6: 01-2119452498-28-XXXX

#### 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 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. H335 May cause respiratory irritation.

## **MA310 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.

Contains METHYL METHACRYLATE

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.

P333+P313 If skin irritation or rash occurs: 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.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

## 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

METHYL METHACRYLATE 60-100%

CAS number: 80-62-6 EC number: 201-297-1 REACH registration number: 01-

2119452498-28-0000

Classification

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

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

10-30%

CAS number: 34562-31-7

Classification

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

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General information Avoid contact with skin and eyes. Do not breathe vapour/spray. In case of accident or if you

feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation** Move affected person to fresh air at once. When breathing is difficult, properly trained

personnel may assist affected person by administering oxygen. Get medical attention if any

discomfort continues.

**Ingestion** Do not induce vomiting. Give plenty of water to drink. Get medical attention.

Skin contact Remove affected person from source of contamination. Wash skin thoroughly with soap and

water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes and get medical attention. Get medical attention if irritation persists after washing.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

#### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

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

Specific hazards Highly flammable Avoid breathing fire gases or vapours. Vapours are heavier than air and

may spread near ground and travel a considerable distance to a source of ignition and flash

back. Polymerises easily with evolution of heat.

### 5.3. Advice for firefighters

Protective actions during

firefighting

Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Cool containers exposed to flames with water until well after the fire is out. Control run-off

water by containing and keeping it out of sewers and watercourses.

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 Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation.

No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of spray mist and contact with skin and eyes. Wear protective clothing as described in Section 8

of this safety data sheet.

## 6.2. Environmental precautions

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

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.

#### SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Usage precautions

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of vapours/spray and contact with skin and eyes. Take precautionary measures against static discharges. Storage tanks and other containers must be earthed. No smoking, sparks, flames or other sources of ignition near spillage. Good personal hygiene procedures should be implemented.

#### 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 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 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. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Wear protective gloves made of the following material: Rubber or plastic. 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 chemical protective suit.

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Hygiene measures Provide eyewash station and safety shower. Keep away from food, drink and animal feeding

stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving

workplace.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection

must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Organic vapour filter. Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with

European Standard EN140.

## **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** Paste.

Colour Yellow. or Black.

Odour Slight pungent.

pH (diluted solution): 4.5-5.5 5%

Initial boiling point and range 101°C @

Flash point 10°C

**Evaporation rate** 3 (butyl acetate =1)

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 12.5 Lower flammable/explosive limit: 2.1

Vapour pressure 28mmHg @ °C

Vapour density 3.5

Relative density 0.96 @ 20 °C °C

**Viscosity** 40,000 -60,000 cP @ 25°C

9.2. Other information

Other information Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Strong oxidising agents.

10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

Possibility of hazardous

Not available. May polymerise.

reactions

## 10.4. Conditions to avoid

Conditions to avoid Heating may generate flammable vapours. Vapours may form explosive mixtures with air.

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods

of time. Avoid exposure to high temperatures or direct sunlight.

## **MA310 ACTIVATOR**

#### 10.5. Incompatible materials

Materials to avoid Avoid contact with oxidising agents.

#### 10.6. Hazardous decomposition products

Hazardous decomposition

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire or high temperatures create: Nitrous gases (NOx).

Cyanides.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity - oral

**ATE oral (mg/kg)** 50,000.0

Acute toxicity - dermal

**ATE dermal (mg/kg)** 110,000.0

Inhalation Vapours in high concentrations are narcotic. Symptoms following overexposure may include

the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Vapours in high

concentrations are anaesthetic. Symptoms following overexposure may include the following:

Headache. Fatigue. Dizziness. Central nervous system depression.

Irritating. Symptoms following overexposure may include the following: Nausea, vomiting.

Stomach pain.

Skin contact May be absorbed through the skin. Irritating to skin. Prolonged or repeated exposure may

cause severe irritation. May cause sensitisation by skin contact. May cause sensitisation or

allergic reactions in sensitive individuals.

Eye contact Irritating to eyes. A single exposure may cause the following adverse effects: Corneal

damage.

Target organs Prolonged or repeated exposure may cause the following adverse effects: May cause damage

to the liver and kidneys. Respiratory system, lungs Central nervous system

## **SECTION 12: Ecological Information**

**Ecotoxicity** Avoid release to the environment.

12.1. Toxicity

**Toxicity** Not considered toxic to fish.

## 12.2. Persistence and degradability

Persistence and degradability Methyl methacrylate monomer: Biochemical oxygen demand within 5 days (BOD5) = .14 g/g

- 0.9 g/g.

## 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

**Mobility** Do not discharge into drains or watercourses or onto the ground.

## 12.5. Results of PBT and vPvB assessment

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 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

**ADHESIVES** 

(ADR/RID)

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

ADN packing group

ICAO packing group

## 14.5. Environmental hazards

### Environmentally hazardous substance/marine pollutant

No.

## 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

**EU legislation** 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).

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

Revision date 05/04/2018

Revision 11

Supersedes date 08/02/2018

Hazard statements in full H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. 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.