# SAFETY DATA SHEET EMJ110 W

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

#### 1.1. Product identifier

Product name EMJ110 W

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

Identified uses Printing ink.

**Uses advised against**No specific uses advised against are identified.

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

Supplier Electra Polymers Ltd

Roughway Mill, Roughway Lane Tonbridge Kent TN11 9SG

UK

Tel: +44 1732 811118 Fax: +44 1732 811119 sds@electrapolymers.com

# 1.4. Emergency telephone number

**Emergency telephone** +44 (0)1732 811 118 (08.30 - 17.00 GMT)

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 3 - H412

Human health May cause serious eye damage. May cause skin sensitisation or allergic reactions in sensitive

individuals. Considered to be a low inhalation hazard at normal workplace temperatures. The

product contains organic solvents.

**Environmental** The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

#### **Pictogram**





Signal word Danger

Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

# **EMJ110 W**

**Precautionary statements** P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Contains HEXAMETHYLENE DIACRYLATE, Dipropylene glycol diacrylate, 2-propenoic acid, 2-(2-

Vinyloxyethoxy) ethyl ether ester, 2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester, Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, BUTANOL-norm, Triazine derivative, PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE, 2-phenoxyethyl acrylate

Supplementary precautionary statements

y precautionary P261 Avoid breathing vapour/ spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P302+P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment (see medical advice on this label).

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. May cause skin sensitisation or allergic reactions in sensitive individuals.

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

#### 3.2. Mixtures

# HEXAMETHYLENE DIACRYLATE 30-60%

Classification

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

# Dipropylene glycol diacrylate 5-10%

CAS number: 57472-68-1

Classification

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

# 2-propenoic acid, 2-(2-Vinyloxyethoxy) ethyl ether ester

5-10%

CAS number: 86273-46-3

Classification

Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

# **EMJ110 W**

# 2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester

1-5%

Classification

Skin Sens. 1B - H317 Aquatic Chronic 2 - H411

# Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

1-5%

Classification

Skin Sens. 1B - H317 Repr. 2 - H361fd Aquatic Chronic 2 - H411

Triazine derivative 1-5%

CAS number: 187547-46-2 EC number: 420-390-1 REACH registration number: 01-

0000016703-72-XXXX

Classification

Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

BUTANOL-norm 1-5%

CAS number: 71-36-3 EC number: 200-751-6

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336

# PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE

0.1-1%

**OXIDE** 

Classification

Skin Sens. 1 - H317 Aquatic Chronic 4 - H413

1-METHOXY-2-PROPANOL 0.1-1%

CAS number: 107-98-2 EC number: 203-539-1 REACH registration number: 01-

2119457435-35-0000

Classification

Flam. Liq. 3 - H226 STOT SE 3 - H336

#### **EMJ110 W**

2-phenoxyethyl acrylate 0.1-1%

CAS number: 48145-04-6 REACH registration number: 01-

2119980532-35-0001

Classification

Skin Sens. 1A - H317 Repr. 2 - H361d

Aquatic Chronic 2 - H411

METHANOL 0.1-1%

CAS number: 67-56-1 EC number: 200-659-6

Classification

Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370

ETHYL ACETATE <0.1%

CAS number: 141-78-6 EC number: 205-500-4

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

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 Get medical attention if any discomfort continues. Treat symptomatically.

Inhalation 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.

**Ingestion** Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact Wash skin thoroughly with soap and water. Get medical attention if irritation persists after

washing. Take off contaminated clothing and wash it before reuse.

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

minutes and get medical attention.

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

General information Treat symptomatically.

**Inhalation** No specific symptoms known. May cause respiratory irritation.

**Ingestion** No specific symptoms known. May cause irritation.

**Skin contact** May cause sensitisation by skin contact.

**Eye contact** Causes serious eye damage.

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

Notes for the doctor No specific recommendations.

#### SECTION 5: Firefighting measures

## 5.1. Extinguishing media

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

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

# 5.2. Special hazards arising from the substance or mixture

Specific hazards None.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances: Oxides

of carbon. Toxic gases or vapours.

#### 5.3. Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

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 Wear protective clothing as described in Section 8 of this safety data sheet. No smoking,

sparks, flames or other sources of ignition near spillage.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Avoid the spillage or runoff

entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable

non-combustible material.

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

Methods for cleaning up 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.

#### 6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste

disposal, see Section 13.

### SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

**Usage precautions** For personal protection, see Section 8.

Advice on general occupational hygiene

Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet. Remove

contaminated clothing and protective equipment before entering eating areas.

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

Storage precautions Keep away from heat, sparks and open flame. Store in tightly-closed, original container.

Protect from freezing and direct sunlight.

Storage class Miscellaneous hazardous material storage.

#### 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

#### **BUTANOL-norm**

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 50 ppm 154 mg/m<sup>3</sup>

Sk

#### 1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m³ Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m³ Sk

#### **METHANOL**

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³ Sk

#### **ETHYL ACETATE**

Long-term exposure limit (8-hour TWA): WEL 200 ppm Short-term exposure limit (15-minute): WEL 400 ppm

WEL = Workplace Exposure Limit Sk = Can be absorbed through skin. Sk = Can be absorbed through the skin.

# HEXAMETHYLENE DIACRYLATE (CAS: 13048-33-4)

**DNEL** Industry - Dermal; Long term systemic effects: 2.77 mg/kg/day

Industry - Inhalation; Long term systemic effects: 24.88 mg/m³ Professional - Dermal; Long term systemic effects: 1.66 mg/m³ Professional - Oral; Long term systemic effects: 2.08 mg/kg/day Professional - Inhalation; Long term systemic effects: 7.24 mg/m³

PNEC - Fresh water; 0.0015 mg/l

Marine water; 0.00015 mg/lSediment; 0.0137 mg/kgSoil; 0.00397 mg/kgSTP; 2.7 mg/l

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS: 75980-60-8)

**DNEL** Industry - Inhalation; Long term systemic effects: 3.5 mg/m<sup>3</sup>

Industry - Dermal; Long term systemic effects: 1 mg/m³

PNEC - Fresh water; o.00353 mg/l

Marine water; 0.000353 mg/l
Intermittent release; 0.0353 mg/l
Sediment (Freshwater); 0.29 mg/kg
Sediment (Marinewater); 0.029 mg/kg

- Soil; 0.0557 mg/kg

Triazine derivative (CAS: 187547-46-2)

#### **EMJ110 W**

**PNEC** Fresh water; .1083 mg/l

> Marine water; .01083 mg/l Intermittent release; .01083 mg/l

STP; 100 mg/l

Sediment (Freshwater); 35.44 mg/l Sediment (Marinewater); 3.544 mg/l

Soil; 7 mg/l

#### 1-METHOXY-2-PROPANOL (CAS: 107-98-2)

**DNEL** Industry - Inhalation; Short term: 553.5 mg/m<sup>3</sup>

> Industry - Inhalation; Long term: 369 mg/m<sup>3</sup> Industry - Dermal; Long term: 50.6 mg/m<sup>3</sup>

**PNEC** - Fresh water; 10 mg/l

> - Sediment; 41.6 mg/kg - Soil; 2.47 mg/kg - STP; 100 mg/l

#### PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE (CAS: 162881-26-7)

**DNEL** Workers - Inhalation; Long term, Short term systemic effects: 21 mg/m<sup>3</sup>

> Workers - Dermal; Long term, Short term systemic effects: 3.3 mg/kg Consumer - Inhalation; Long term systemic effects: 5.2 mg/m<sup>3</sup> Consumer - Dermal; Long term systemic effects: 1.5 mg/kg Consumer - Oral; Long term systemic effects: 1.5 mg/kg

### 8.2. Exposure controls





Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Wear eye protection. Wear face protection.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. Neoprene. Polyvinyl chloride (PVC). Laminate of polyethylene and ethylene vinyl alcohol (PE/EVOH).

Other skin and body

protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Do not eat, drink or smoke when using this product. Use engineering controls to reduce air contamination to permissible exposure level. Wash after use and before eating, smoking and using the toilet. Provide eyewash station. Wash contaminated clothing before reuse.

Respiratory protection

No specific requirements are anticipated under normal conditions of use.

**Environmental exposure** controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

## SECTION 9: Physical and Chemical Properties

# 9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Green.

Odour threshold Not determined.

**pH** Not determined.

Melting point Not determined.

**Initial boiling point and range** Not determined.

Flash point Not determined.

**Evaporation rate** Not determined.

**Evaporation factor** Not determined.

Flammability (solid, gas) Not determined.

Upper/lower flammability or

explosive limits

Not determined.

Other flammability Not determined.

Vapour pressure Not determined.

Vapour density Not determined.

Relative density Not determined.

Bulk density Not determined.

Solubility(ies) Not determined.

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

**Decomposition Temperature** Not determined.

Viscosity Kinematic viscosity ≤ 20.5 mm²/s.

**Explosive properties** Not considered to be explosive.

Explosive under the influence

of a flame

No No

Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria

for classification as oxidising.

**Comments** Information given is applicable to the product as supplied.

9.2. Other information

Other information None.

Refractive index Not determined.

Particle size Not applicable.

Molecular weight Not applicable.

Volatility Not determined.

Saturation concentration Not determined.

Critical temperature Not determined.

# **EMJ110 W**

Volatile organic compound Not determined.

## SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame. Avoid exposure to high temperatures or direct

sunlight.

10.5. Incompatible materials

Materials to avoid Strong alkalis. Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition

Thermal decomposition or combustion products may include the following substances: Acrid

smoke or fumes. Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

products

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 12,248.46

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 238,891.54

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

ATE inhalation (gases ppm) 557,413.6

ATE inhalation (vapours mg/l) 2,388.92

ATE inhalation (dusts/mists

mg/l)

398.15

Skin corrosion/irritation

Animal data No information available.

Human skin model test No information available.

**Extreme pH** Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

**Skin sensitisation** Sensitising.

# **EMJ110 W**

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

**Genotoxicity - in vivo**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity**Based on available data the classification criteria are not met. Does not contain any

substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met. Does not contain any

substances known to be toxic to reproduction.

Reproductive toxicity -

development

Based on available data the classification criteria are not met. Does not contain any

substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

**Inhalation** No specific health hazards known. May cause respiratory system irritation.

**Ingestion** No specific health hazards known. May cause discomfort if swallowed.

**Skin contact** May cause sensitisation by skin contact.

**Eye contact** Causes serious eye irritation.

Acute and chronic health

hazards

May cause skin sensitisation or allergic reactions in sensitive individuals. May cause chemical

eye burns.

Route of exposure Inhalation Skin absorption Skin and/or eye contact Ingestion

**Target organs** No specific target organs known.

Medical symptoms Symptoms Symptoms overexposure may include the following: Allergic rash. May cause

discomfort if swallowed.

Medical considerations May cause allergic contact eczema.

SECTION 12: Ecological Information

**Ecotoxicity**The product contains substances which are toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Acute toxicity - aquatic

invertebrates

Not determined.

Acute toxicity - aquatic plants Not determined.

Acute toxicity - microorganisms

Not determined.

#### **EMJ110 W**

Acute toxicity - terrestrial Not determined.

Chronic aquatic toxicity

Chronic toxicity - fish early life Not determined.

stage

Short term toxicity - embryo

and sac fry stages

Not determined.

Chronic toxicity - aquatic

invertebrates

Not determined.

# 12.2. Persistence and degradability

Persistence and degradability This product is not expected to be readily biodegradable.

Phototransformation Not determined.

Stability (hydrolysis) Not determined.

Biodegradation Not determined.

Biological oxygen demand Not determined.

Chemical oxygen demand Not determined.

## 12.3. Bioaccumulative potential

Bioaccumulative potential Not determined.

Partition coefficient Not determined.

12.4. Mobility in soil

Adsorption/desorption

coefficient

Not determined.

Henry's law constant Not determined.

Surface tension Not determined.

# 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 None known.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Residues and empty containers should be taken care of as

hazardous waste according to local and national provisions.

# 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

#### **EMJ110 W**

Not applicable.

# 14.2. UN proper shipping name

Not applicable.

# 14.3. Transport hazard class(es)

No transport warning sign required.

## 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

# Environmentally hazardous substance/marine pollutant

Nο

# 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### SECTION 15: Regulatory information

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

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment

Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

Health and Safety at Work etc. Act 1974 (as amended).

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives

91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**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).

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).

Health and environmental

listings

None of the ingredients are listed.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions on use are known for this product.

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

Classification procedures according to Regulation (EC) : Calculation method.

1272/2008

Issued by HS&E Manager.

Revision date 07/02/2019

Revision 2

12/12/2018 Supersedes date

SDS number 20802

Hazard statements in full H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H370 Causes damage to organs.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

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.