



## SAFETY DATA SHEET POLYESTER RESIN

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

#### 1.1. Product identifier

**Product name** J-FIX Polyester Resin Part A

**Product number** JF380P

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

**Identified uses** Resin.

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

**Supplier** JCP Construction Products  
Unit 14, Teddington Industrial Estate  
Teddington, Middlesex. TW11 9BQ

Tel: +44 (0)208 943 1800

Fax: +44 (0)208 943 1140

email:jcpenquiries@owlett-jaton.com

**Web** [www.jcpconstructionproducts.com](http://www.jcpconstructionproducts.com)

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0)208 943 1800 8.30am-5.00pm Monday to Friday

### SECTION 2: Hazards identification

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

##### Classification

**Physical hazards** Flam. Liq. 3 - H226

**Health hazards** Repr. 2 - H361d STOT RE 2 - H373

**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xn; R48/20. Repr. Cat. 3 R63. R10

#### 2.2. Label elements

##### Pictogram



**Signal word** Warning

## JF380P Part A

<b>Hazard statements</b>	H226 Flammable liquid and vapour. H361d Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
<b>Precautionary statements</b>	P260 Do not breathe vapours. 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. P314 Get medical advice/attention if you feel unwell. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool.
<b>Contains</b>	STYRENE
<b>Supplementary precautionary statements</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P501 Dispose of contents/container in accordance with national regulations.

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>STYRENE</b>		<b>5-10%</b>
CAS number: 100-42-5	EC number: 202-851-5	REACH registration number: 01-2119457861-32-XXXX
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Flam. Liq. 3 - H226	T; R48/23. Xn; R65, R20. Xi; R36/37/38. Repr. Cat. 3 R63.	
Acute Tox. 4 - H332	R10	
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Repr. 2 - H361d		
STOT SE 3 - H335		
STOT RE 1 - H372		
Asp. Tox. 1 - H304		

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>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and 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 if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

<b>Inhalation</b>	May cause respiratory irritation.
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## JF380P Part A

<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause skin irritation/eczema.
<b>Eye contact</b>	May irritate eyes.

### **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**

<b>Specific hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Oxides of carbon.

### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours.
<b>Special protective equipment for firefighters</b>	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**

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Avoid release to the environment.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
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### **6.4. Reference to other sections**

<b>Reference to other sections</b>	Wear protective clothing as described in Section 8 of this safety data sheet. 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>	Do not use in confined spaces without adequate ventilation and/or respirator.
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### **7.2. Conditions for safe storage, including any incompatibilities**

<b>Storage precautions</b>	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from oxidising materials, heat and flames.
<b>Storage class</b>	Chemical storage.

### **7.3. Specific end use(s)**

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
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## **SECTION 8: Exposure Controls/personal protection**

## JF380P Part A

### 8.1. Control parameters

#### Occupational exposure limits

##### STYRENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 430 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 1080 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### STYRENE (CAS: 100-42-5)

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 85 mg/m <sup>3</sup> Industry - Inhalation; Short term systemic effects: 289 mg/m <sup>3</sup> Industry - Inhalation; Short term local effects: 306 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: 406 mg/kg/day REACH dossier information
<b>PNEC</b>	- Fresh water; 0.028 mg/l - Marine water; 0.0028 mg/l - Intermittent release; 0.04 mg/l - STP; 4 mg/l - Sediment (Freshwater); 0.614 mg/kg - Sediment (Marinewater); 0.0614 mg/kg - Soil; 0.2 mg/kg REACH dossier information

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do not eat, drink or smoke when using this product.

#### Respiratory protection

Respiratory protection may be required if excessive airborne contamination occurs.

#### Environmental exposure controls

Keep container tightly sealed when not in use.

## SECTION 9: Physical and Chemical Properties

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

Appearance	Liquid
Colour	Beige.

## JF380P Part A

<b>Odour</b>	Aromatic.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point</b>	-30.4°C
<b>Initial boiling point and range</b>	>145°C @
<b>Flash point</b>	31°C
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Other flammability</b>	Not determined.
<b>Vapour pressure</b>	6 hPa @ 20°C
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.65 - 1.75 @ 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Insoluble in water
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	490°C
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	> 60 S ISO2431
<b>Explosive properties</b>	No information available.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Organic peroxides/hydroperoxides.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Does not decompose when used and stored as recommended.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** Organic peroxides/hydroperoxides.

### 10.6. Hazardous decomposition products

## JF380P Part A

**Hazardous decomposition products** Oxides of carbon.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 108.15955698

##### Specific target organ toxicity - repeated exposure

**Target organs** Causes damage to hearing organs through prolonged or repeated exposure via inhalation

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Liquid may irritate skin.

**Eye contact** Irritating to eyes.

**Acute and chronic health hazards** Irritating to skin. Irritating to eyes. Gas or vapour is harmful on prolonged exposure or in high concentrations. May cause damage to organs through prolonged or repeated exposure if inhaled.

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

**Medical symptoms** Skin irritation. Irritation of eyes and mucous membranes.

##### Toxicological information on ingredients.

#### STYRENE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000

Species Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000

Species Rat

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

##### Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

### SECTION 12: Ecological Information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

## JF380P Part A

### 12.1. Toxicity

#### Ecological information on ingredients.

#### STYRENE

Acute toxicity - fish	LC50, 96 hours, 96 hours: 10 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours, 48 hours: 4.7 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours, 72 hours: 4.9 mg/l, Selenastrum capricornutum

### 12.2. Persistence and degradability

#### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not determined.

#### 12.4. Mobility in soil

**Mobility** Not applicable.

#### 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 applicable.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ICAO)** 1866

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** RESIN SOLUTION

**Proper shipping name (IMDG)** RESIN SOLUTION

**Proper shipping name (ICAO)** RESIN SOLUTION

**Proper shipping name (ADN)** RESIN SOLUTION

### 14.3. Transport hazard class(es)

**ADR/RID class** Exempt C1 2.2.3.1.5

**IMDG class** Exempt. IMDG Code Clause 2.3.2.5

**IMDG subsidiary risk**

## JF380P Part A

ICAO class/division 3

ICAO subsidiary risk

Transport labels

### 14.4. Packing group

ICAO packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 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 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).  
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).

**Guidance** Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 16/04/2015

**Revision** 1

**Supersedes date** 19/05/2014

**SDS number** 20346

**Risk phrases in full** R10 Flammable.  
R20 Harmful by inhalation.  
R36/38 Irritating to eyes and skin.  
R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.  
R63 Possible risk of harm to the unborn child.  
R65 Harmful: may cause lung damage if swallowed.

**Hazard statements in full** H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H361d Suspected of damaging the unborn child.  
H372 Causes damage to organs (Hearing) through prolonged or repeated exposure if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.



## JF380P

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 POLYESTER RESIN PART B

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

#### 1.1. Product identifier

**Product name** J-FIX Polyester Resin Part B

**Product number** JF380P

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

**Identified uses** Catalyst.

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

**Supplier** JCP Construction Products  
Unit 14, Teddington Industrial Estate  
Teddington, Middlesex. TW11 9BQ

Tel: +44 (0)208 943 1800

Fax: +44 (0)208 943 1140

**Web** email:jcpenquiries@owlett-jaton.com

www.jcpconstructionproducts.com

**1.4. Emergency telephone** +44 (0)208 943 1800 8.30am-5.00pm Monday to Friday

### SECTION 2: Hazards identification

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

##### Classification

**Physical hazards** Not Classified

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

**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

**Classification (67/548/EEC or 1999/45/EC)** Xi; R36. N; R50. R52/53, R43

**Human health** May cause skin disorders if contact is repeated or prolonged. The product is irritating to eyes and skin.

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

**Physicochemical** Not considered to be a significant hazard due to the small quantities used.

#### 2.2. Label elements

## JF380P Part B

### Pictogram



### Signal word

Warning

### Hazard statements

H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H400 Very toxic to aquatic life.  
 H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with national regulations.

### Contains

BENZOYL PEROXIDE

### Supplementary precautionary statements

P264 Wash contaminated skin thoroughly after handling.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.  
 P411 Store at temperatures not exceeding 25°C/77°F.

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>BENZOYL PEROXIDE</b>		<b>10-15%</b>
CAS number: 94-36-0	EC number: 202-327-6	REACH registration number: 01-2119511472-50-XXXX
M factor (Acute) = 10		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Org. Perox. B - H241	O; R7. E; R3. Xi; R36. N; R50. R43	
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
Aquatic Acute 1 - H400		
<b>BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR</b>		<b>5-10%</b>
CAS number: 670241-72-2	EC number: 447-010-5	REACH registration number: 01-0000018876-55-XXXX
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Aquatic Chronic 2 - H411	N; R51/53	

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

## SECTION 4: First aid measurements

### 4.1. Description of first aid measures

## JF380P Part B

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and 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 if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.

### 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

<b>Specific hazards</b>	No specific precautions due to the small quantities handled.
<b>Hazardous combustion products</b>	Oxides of carbon.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours.
<b>Special protective equipment for firefighters</b>	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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid release to the environment.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

## JF380P Part B

<b>Usage precautions</b>	Keep away from heat, sparks and open flame.
<b>Advice on general occupational hygiene</b>	Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

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

<b>Storage precautions</b>	Keep away from flammable and combustible materials. Store in closed original container at temperatures between 5°C and 25°C.
<b>Storage class</b>	Chemical storage.

### 7.3. Specific end use(s)

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
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## 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>

WEL = Workplace Exposure Limit

#### BENZOYL PEROXIDE (CAS: 94-36-0)

<b>DNEL</b>	Industry - Inhalation; Long term : 11.75 mg/m <sup>3</sup> Industry - Dermal; Long term : 6.6 mg/kg/day Industry - Oral; Long term : 1.6 mg/kg/day
<b>PNEC</b>	- Sediment (Marinewater); 0.0338 mg/kg - Fresh water; 0.000602 mg/l - Sediment (Freshwater); 0.338 mg/kg - STP; 0.35 mg/l - Marine water; 0.0000602 mg/l

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### Hand protection

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

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. DO NOT SMOKE IN WORK AREA!

#### Respiratory protection

No specific recommendations.

## SECTION 9: Physical and Chemical Properties

## JF380P Part B

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

<b>Appearance</b>	Liquid
<b>Colour</b>	Black.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not determined.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Other flammability</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.5 - 1.6
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Not determined.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	50°C
<b>Viscosity</b>	> 60 S ISO2431
<b>Explosive properties</b>	No information available.
<b>Oxidising properties</b>	Not determined.

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Acids. Alkalis. Amines. Strong reducing agents.

##### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended. Will decompose at temperatures exceeding 50°C.

##### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will not polymerise.

## JF380P Part B

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with strong reducing agents. Avoid heat. Avoid contact with acids and alkalis.

### 10.5. Incompatible materials

**Materials to avoid** Strong reducing agents. Acids, non-oxidising. Acids - organic. Alkalis - inorganic. Alkalis - organic. Amines.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Skin sensitisation

**Skin sensitisation** Sensitising.

**Inhalation** No specific health hazards known.

**Ingestion** May cause discomfort if swallowed.

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

**Eye contact** Irritation of eyes and mucous membranes.

**Route of entry** Skin and/or eye contact.

**Medical symptoms** Skin irritation. Irritation of eyes and mucous membranes.

**Medical considerations** No information available.

#### Toxicological information on ingredients.

#### BENZOYL PEROXIDE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 950

**Species** Rat

##### Carcinogenicity

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

## SECTION 12: Ecological Information

### 12.1. Toxicity

#### Ecological information on ingredients.

#### BENZOYL PEROXIDE

##### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C50 ≤ 0.1

**M factor (Acute)** 10

**Acute toxicity - fish** LC50, 96 hours, 96 hours: 0.06 mg/l, Onchorhynchus mykiss (Rainbow trout)

## JF380P Part B

<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours, 48 hours: 0.11 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours, 72 hours: 0.07 mg/l, Selenastrum capricornutum

### BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 24 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
	LC <sub>50</sub> , 48 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
	LC <sub>50</sub> , 72 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
	EC <sub>50</sub> , 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
	EC <sub>100</sub> , 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
<b>Acute toxicity - aquatic invertebrates</b>	NOEC, 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
	EC <sub>50</sub> , 24 hours: > 2.2 mg/l, Daphnia magna
	EC <sub>50</sub> , 48 hours: > 2.2 mg/l, Daphnia magna
<b>Acute toxicity - microorganisms</b>	NOEC, 48 hours: > 2.2 mg/l, Daphnia magna
	IC <sub>50</sub> , 3 hours: > 1000 mg/l, Activated sludge
	NOEC, 3 hours: > 1000 mg/l, Activated sludge

#### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not determined.

#### 12.4. Mobility in soil

**Mobility** Mobile. The product is partly miscible with water and may spread in the aquatic environment.

#### 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

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

#### 14.2. UN proper shipping name



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**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

"LQ" <5 Ltr / <5 Kg

**ADR/RID class** "LQ" S P 375

**ADR/RID classification code** M6

**ADR/RID label** 9

**IMDG class** "LQ" c 2.10.2.7

**ICAO class/division** 9

**ADN class** 9

#### Transport labels



### 14.4. Packing group

**ADR/RID packing group** III

**IMDG packing group** III

**ADN packing group** III

**ICAO packing group** III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

**EmS** F-A, S-F

**ADR transport category** 3

**Emergency Action Code** •3Z

**Hazard Identification Number (ADR/RID)** 90

**Tunnel restriction code** (E)

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

## SECTION 15: Regulatory information

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

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<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). 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).
<b>Guidance</b>	Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	14/04/2015
<b>Revision</b>	4
<b>Supersedes date</b>	13/04/2015
<b>SDS number</b>	20486
<b>Risk phrases in full</b>	R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition. R7 May cause fire. R36 Irritating to eyes. R43 May cause sensitisation by skin contact. R50 Very toxic to aquatic organisms. 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.
<b>Hazard statements in full</b>	H241 Heating may cause a fire or explosion. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H411 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.