



ISO 9001



# Safety Data Sheet

## According to Regulation (EC) No. 1907/2006 (REACH)

### XYLENE

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

##### 1.1 Product identifier

**Product name:** XYLENE  
**Product code:** BT1  
**Product description:** Thinner.  
**CAS No.:** 1330-20-7  
**EC No.:** 215-535-7  
**Index No.:** 612-022-00-9

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

**Identified use(s):** Thinner for Bailey Paints' 4500/4900/4950 range.  
**Uses advised against:** Follow supplier's recommendations on correct use of the product.

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

**Manufacturer/Supplier:** S G Bailey Paints Limited  
Unit 15A  
Griffin Mill  
London Road  
Thrupp  
Stroud  
Gloucestershire  
GL5 2AZ  
**Telephone:** +44 (0)1453 882237  
**E-mail:** richard@baileypaints.co.uk

##### 1.4 Emergency telephone number

**In case of emergency, call:** +44 (0) 7774 460658 (UK number, 24 hours, 7 days)

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### SECTION 2: Hazard Identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 (CLP)

Flammable Liquid 3; H226  
Acute Toxicity 4; H312  
Acute Toxicity 4; H332  
Skin Irritant 2; H315  
Eye Irritant 2; H319  
Specific Target Organ Toxicity Single Exposure 3; H335  
Specific Target Organ Toxicity Repeated Exposure 2; H373  
Aspiration Toxicity 1, H304

#### 2.2 Label elements according to Regulation (EC) No. 1272/2008 (CLP)

##### Hazard pictogram(s):



##### Signal Word:

Danger

##### Hazard Statement(s):

H226: Flammable liquid and vapour.  
H312: Harmful in contact with skin.  
H332: Harmful if inhaled.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H373: May cause damage to organs through prolonged or repeated exposure if inhaled.  
H304: May be fatal if swallowed and enters airways.

##### Precautionary Statement(s):

P210: Keep away from heat / sparks / open flames / hot surfaces. No smoking.  
P241: Use explosion-proof electrical equipment.  
P260: Do not breathe vapours.



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P303 + P361 + P353: IF ON SKIN (or hair):  
Remove/take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
P304 + P340: IF INHALED: Remove victim to fresh air  
and keep at rest in a position comfortable for breathing.  
P301 + P310: IF SWALLOWED: Immediately call a  
doctor/physician.  
P331: Do NOT induce vomiting.  
P403 + P235: Store in a well-ventilated place. Keep  
cool.  
P501: Dispose of contents/container to hazardous  
waste.

### Supplemental Hazard information (EU):

None.

### EC Number:

215-535-7

### Contains:

Xylene

### 2.3 Other hazards:

Product may charge electrostatically.

## SECTION 3: Composition

### 3.2 Mixtures

#### Classification according to Regulation (EC) No. 1272/2008 (CLP)

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification
Xylene <i>REACH Registration no.:</i> <i>01-2119488216-32</i>	55 - 100	1330-20-7	215-535-7	601-022-00-9	Flam. Liq. 3; H226 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox. 1; H304
Ethylbenzene	15	100-41-4	202-849-4	601-023-00-4	Flam. Liq. 2; H225 Acute Tox. 4; H332

See Section 16 for full description of H statements.



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### SECTION 4: First Aid Measures

#### 4.1 Description of first aid measures

<b>INHALATION:</b>	Remove patient to fresh air and keep at rest. If there are breathing problems, seek medical advice.
<b>SKIN CONTACT:</b>	Remove contaminated clothing immediately. Rinse skin with water or shower and wash with soap and water. Seek medical advice if symptoms persist.
<b>EYE CONTACT:</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice if irritation persists.
<b>INGESTION:</b>	Give small quantities of water to drink. Do NOT induce vomiting. Obtain immediate medical attention.

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

Serious eye irritation, skin irritation, respiratory irritation.

#### 4.3 Indication of any immediate medical attention and special treatments needed

If ingested, product may be aspirated into the lungs and cause chemical pneumonitis. Treat symptomatically.

### SECTION 5: Fire-fighting Measures

#### 5.1 Extinguishing Media

<b>Suitable extinguishing media:</b>	Foam, CO <sub>2</sub> or dry powder.
<b>Unsuitable extinguishing media:</b>	Do not use water jet.

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

Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back, causing fire or explosion. Containers may rupture on heating. Toxic gases may be formed in a fire.



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### 5.3 Advice for fire-fighters

FLAMMABLE. Evacuate area. Prevent run-off from fire control or dilution from entering drains or water courses. Self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep fire-exposed containers cool by spraying with water. Do not allow to enter drains, sewers or watercourses.

Flash point: 27 - 32°C.

## SECTION 6: Accidental Release Measures

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

#### 6.1.1 For non-emergency personnel

Eliminate sources of ignition. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear suitable personal protective equipment. Wear appropriate respirator when ventilation is inadequate (see Section 8).

#### 6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (see Section 8). Contaminated clothing should be thoroughly cleaned.

### 6.2 Environmental precautions

Collect spillage. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

### 6.3 Methods and materials for containment and cleaning up

#### 6.3.1 For containment

Stop the leak if it is safe to do so. Contain the spillage with sand, earth or any suitable adsorbent material.

#### 6.3.2 For cleaning up

Use sand, earth or any suitable non-combustible adsorbent material to adsorb spillages. Using non-sparking tools transfer the contaminated adsorbent material into sealable containers for disposal. Containers should be sealed before being disposed of via an authorised waste disposal contractor.

#### 6.3.3 Other advice

None



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### **6.4 Reference to other sections**

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

## **SECTION 7: Handling and Storage**

### **7.1 Precautions for safe handling**

Provide adequate ventilation, including local extraction to ensure the occupational exposure limit is not exceeded. Do not inhale vapours. Avoid contact with skin and eyes. Wear suitable personal protective equipment (see Section 8). Eliminate all sources of ignition. Electrical equipment should be protected to the appropriate standard.

Do not eat, drink or smoke when using this product. Wash exposed skin after use. Contaminated work clothing should not be allowed out of the workplace. Contaminated clothing should be thoroughly cleaned or disposed of as hazardous waste.

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

Keep away from heat and sources of ignition. Keep from direct sunlight. Store locked up. Store only in the original container. Do not pressurise container. Product may charge electrostatically so all containers and associated equipment should be earthed and bonded to prevent static charge accumulation. Store in a cool, well ventilated place. Empty containers retain product residue and can be hazardous.

Ensure compliance with all regulations and guidance associated with the storage and use of flammable liquids.

See section 10 for incompatible materials.

### **7.3 Specific end uses(s)**

Thinner for Bailey Paints' 4500/4900/4950 range.



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## According to Regulation (EC) No. 1907/2006 (REACH)

### SECTION 8: Exposure Controls/Personal Protection

#### 8.1 Control parameters

##### Workplace exposure limits (WEL) – United Kingdom

Source: EH40/2005, 2<sup>nd</sup> Ed., 2011

Substance	CAS no.	LTEL (8 hr TWA)		STEL (15 min)	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Xylene	1330-20-7	50	220	100	441
Ethylbenzene	100-41-4	100	441	125	552

##### Other exposure limits

Consult applicable national legislation for WELs in other countries.

##### Biological limits

Substance	Specimen	Sampling time	Limit	Determinant	Source
Xylene	Creatinine in urine	End of shift	650 mmol/mol	Methyl hippuric acid	UK BMGV

##### Derived No-Effect Level (DNEL) - industry

Substance	Dermal	Inhalation	Oral
Xylene	Long-term: 3182 mg/kg/day	Short-term: 442 mg/m <sup>3</sup> Long-term: 180 mg/kg/day	Not available

##### Predicted No-Effect Concentration (PNEC)

Substance	Aqua (fresh water)	Aqua (marine water)	Aqua (intermittent releases)	Sewage Treatment Plants	Sediment	Soil	Oral (secondary poisoning)
Xylene	0.327 mg/l	0.327 mg/l	0.327 mg/l	6.58 mg/l	12.46 mg/kg (dry weight)	2.31 mg/kg	NA



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### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction. Electrical equipment should be protected to the appropriate standard.

#### 8.2.2 Personal protection:

A suitable and sufficient COSHH assessment must be undertaken and appropriate and compliant personal protective equipment (PPE) provided and used.

##### Eye protection:

Goggles or glasses giving complete protection to eyes (EN 166) or face shield.

##### Skin protection:

Appropriate barrier creams.

##### Hand protection:

Chemical resistant gloves. (EN 374).

##### Other:

Long sleeve protective clothing. Plastic apron. Rubber boots.

##### Respiratory protection:

In the case of insufficient ventilation, wear suitable respiratory equipment.

Air-fed respiratory protective equipment should be worn when this product is sprayed, in addition to other exposure-reduction measures (e.g. booth design).

#### 8.2.3 Environmental exposure controls

Inform environmental manager of all incidents involving this product.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Colourless liquid
Odour:	Aromatic hydrocarbons
Odour threshold:	Not available
pH:	Not applicable
Melting/freezing point:	137 to 140°C
Initial boiling point and boiling range:	32°C
Flash point:	24 - 32°C
Evaporation rate:	0.77 (BuAc = 1)





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<b>Flammability (solid; gas):</b>	Not applicable.
<b>Upper/lower flammability or explosive limits:</b>	Upper: 6.7%; Lower: 0.8%
<b>Vapour pressure:</b>	0.82 kPa @ 20°C.
<b>Vapour density:</b>	3.7 (air = 1)
<b>Relative density:</b>	1.2 to 1.4 (Water = 1)
<b>Solubility:</b>	Insoluble in water; soluble in organic solvents
<b>Partition coefficient: n-octanol/water:</b>	3.2
<b>Auto-ignition temperature:</b>	488°C
<b>Decomposition temperature:</b>	Not applicable.
<b>Viscosity:</b>	0.0084 cm <sup>2</sup> /s @ 40°C
<b>Explosive properties:</b>	Vapour may form explosive mixture with air
<b>Oxidising properties:</b>	Not oxidising

### 9.2 Other information

None

## SECTION 10: Stability and Reactivity

<b>10.1 Reactivity</b>	Reacts with strong oxidising agents.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	No hazardous reactions expected during normal use.
<b>10.4 Conditions to avoid</b>	Keep away from sources of ignition, hot surfaces, direct sunlight and other sources of ignition.
<b>10.5 Incompatible materials</b>	Strong oxidising agents.
<b>10.6 Hazardous decomposition products</b>	Combustion may liberate toxic smoke, fumes, incomplete combustion products and oxides of carbon.

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

<b>Acute toxicity</b>	Oral LD50 (rat): 3523 mg/kg Dermal LD50 (rabbit): > 5000 mg/kg Inhalation LC50 (rat): 5000 ppmV (gas) / 4 hours
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<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b>Skin sensitisation</b>	Not classified. The product does not contain substances classified as skin sensitisers above the classification thresholds.
<b>Respiratory irritation</b>	May cause respiratory irritation.
<b>Respiratory sensitisation</b>	No evidence of respiratory sensitisation.
<b>Germ cell mutagenicity</b>	Not mutagenic.
<b>Carcinogenicity</b>	Not classified. The product does not contain substances classified as carcinogenic above the classification thresholds.
<b>Reproductive toxicity</b>	Not classified. The product does not contain substances classified for reproductive toxicity above the classification thresholds.
<b>Specific Target Organ Toxicity – single exposure</b>	Inhalation of high concentrations of vapour may cause respiratory tract irritation.
<b>Specific Target Organ Toxicity – repeated exposure</b>	Prolonged or repeated inhalation of high concentrations of vapour can cause kidney, liver and central nervous system damage.
<b>Aspiration hazard</b>	If ingested, may be aspirated into the lungs and cause chemical pneumonitis

### Information on likely routes of exposure

<b>Inhalation</b>	See above
<b>Skin contact</b>	See above
<b>Eye contact</b>	See above
<b>Ingestion</b>	See above

**Symptoms related to the physical, chemical and toxicological characteristics** See above

**Other information** None



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### SECTION 12: Ecological Information

- 12.1 Toxicity** The product is low hazard for the environment.
- LC50 96h fish: 4.2. mg/l (*Onchorhynchus mykiss*)  
EC50 48h aquatic invertebrates: 2.9 mg/l (*Daphnia magna*)  
EC50 72h aquatic plants: 4.4.mg/l (*Pseudokirkneriella subcapitata*)  
NOEC 96h fish early life stage: 3.3 mg/l (*Menidia menidia*)  
NOEC 48h aquatic invertebrates: 6.8 mg/l (*Daphnia magna*)
- 12.2 Persistence and degradability** Readily biodegradable. Air photolysis: half-life 1.09 days. Transformation due to photolysis or hydrolysis not expected to be significant. Water degradation: 70% in 28 days; readily biodegradable in water.
- 12.3 Bioaccumulative potential** Potential for Xylene to bioaccumulate is low. Log Kow (octanol/water): 3.2 (calculated).
- 12.4 Mobility in soil** The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.
- 12.5 Results of PBT and vPvB assessment** Not classified as PBT/vPvB by current EU criteria.
- 12.6 Other adverse effects** No other adverse effects are expected.

### SECTION 13: Disposal Considerations

#### 13.1 Waste treatment methods

Product and packaging to be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.

Contaminated adsorbent must be removed in sealed, drums and disposed of via an authorised waste disposal contractor. Do not empty into drains; dispose of this material and its container in a safe way.



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Empty containers may contain residue and may be dangerous. Do not attempt to refill or clean containers without proper instructions. Do not pressurise, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition. Residual flammable vapour may cause an explosion.

### SECTION 14: Transport Information

#### ROAD (ADR)

14.1	UN Number	1307
14.2	UN Proper shipping name	XYLENES
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No

#### INLAND WATERWAYS (ADN/ADNR)

14.1	UN Number	1307
14.2	UN Proper shipping name	XYLENES
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No

#### RAIL (RID)

14.1	UN Number	1307
14.2	UN Proper shipping name	XYLENES
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No

#### AIR (IATA/ICAO)

14.1	UN Number	1307
14.2	UN Proper shipping name	XYLENES
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No



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### SEA (IMDG)

14.1	UN Number	1307
14.2	UN Proper shipping name	XYLENES
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No
14.6	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not intended to be transported in bulk

### SECTION 15: Regulatory Information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006 as amended. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP).
15.2	Chemical Safety Assessment	Not applicable.

### SECTION 16: Other Information

#### Full text of relevant H-statements:

H225: Highly flammable liquid and vapour.  
H226: Flammable liquid and vapour.  
H304: May be fatal if swallowed and enters airways.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H373: May cause damage to organs through prolonged or repeated exposure.

#### References:

Suppliers' Safety Data Sheets for components  
Regulation (EC) No. 1272/2008  
EH40/2005, 2<sup>nd</sup> Ed., 2011



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### **Disclaimer:**

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

### **Version history:**

<b>Version:</b>	1.0
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<b>Sections changed from previous version:</b>	All sections reviewed and revised