



ISO 9001



Safety Data Sheet

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

ADE HEAT RESISTING SILVER

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

1.1 Product identifier

Product name: ADE HEAT RESISTING SILVER

Product code: 2450-8-33

Product description: Heat resistant coating.

CAS No.: Not applicable.

EC No.: Not applicable.

Index No.: Not applicable.

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

Identified use(s): Coating metal substrates.

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 Damage 1; H318
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.
H318: Causes serious eye damage.
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.
P260: Do not breathe vapours.
P280: Wear protective gloves / protective clothing / eye



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protection / face protection.
 P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
 P301 + P310: IF SWALLOWED: Immediately call a doctor/physician.
 P331: Do NOT induce vomiting.
 P305 + P351 + P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a doctor/physician.
 P501: Dispose of contents/container to hazardous waste.

Supplemental Hazard information (EU):

None

Contains:

Xylene, Ethylbenzene, Butanol

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.: 01-2119488216-32</i>	40 - 75	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	ca. 10	100-41-4	202-849-4	601-023-00-4	Flam. Liq. 2; H225 Acute Tox. 4; H332
Butanol <i>REACH Registration no.: 01-2119484609-23</i>	ca. 10	78-83-1	201-148-0	603-108-00-1	Flam. Liq. 3; H226 Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE3; H335 STOT SE3; H336



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

See Section 16 for full description of H statements.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

INHALATION:	Remove patient to fresh air and keep at rest. If there are breathing problems, seek medical advice.
SKIN CONTACT:	Remove contaminated clothing immediately. Wash affected area with copious amounts of soap and water. Seek medical advice if symptoms persist.
EYE CONTACT:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice.
INGESTION:	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 damage, 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

Suitable extinguishing media:	Foam, CO ₂ or dry powder.
Unsuitable extinguishing media:	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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According to Regulation (EC) No. 1907/2006 (REACH)

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: 24°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 clearing 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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According to Regulation (EC) No. 1907/2006 (REACH)

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)

Heat resistant coating for metal substrates.



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SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Workplace exposure limits (WEL) – United Kingdom

Source: EH40/2005, 2nd Ed., 2011

Substance	CAS no.	LTEL (8 hr TWA)		STEL (15 min)	
		ppm	mg/m ³	ppm	mg/m ³
Xylene	1330-20-7	50	220	100	441
Ethylbenzene	100-41-4	100	441	125	552
Butanol	78-83-1	50	154	75	231

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 ³ 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:	Silver liquid
Odour:	Solvent
Odour threshold:	Not available
pH:	Not applicable
Melting/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	24°C
Evaporation rate:	Not available



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Flammability (solid; gas):	Not applicable
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	Not available.
Vapour density:	Not available
Relative density:	0.9 to 1.2 (Water = 1)
Solubility:	Insoluble in water
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	2.5 to 3.5 poise (ICI rotothinner, 20°C)
Explosive properties:	Vapour may form explosive mixture with air
Oxidising properties:	Not oxidising

9.2 Other information

None

SECTION 10: Stability and Reactivity

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

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	Harmful in contact with skin. Harmful if inhaled.
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Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	Causes serious eye damage.
Skin sensitisation	Not classified. The product does not contain substances classified as skin sensitisers above the classification thresholds.
Respiratory irritation	Vapour irritates the nose, throat and lungs.
Respiratory sensitisation	No evidence of respiratory sensitisation.
Germ cell mutagenicity	Not mutagenic.
Carcinogenicity	Not carcinogenic.
Reproductive toxicity	Not classified. The product does not contain substances classified for reproductive toxicity above the classification thresholds.
Specific Target Organ Toxicity – single exposure	Inhalation of high concentrations of vapour may cause respiratory tract irritation, headaches, dizziness, nausea and other central nervous system effects.
Specific Target Organ Toxicity – repeated exposure	Prolonged or repeated inhalation of high concentrations of vapour can cause kidney, liver and central nervous system damage.
Aspiration hazard	If ingested, may be aspirated into the lungs and cause chemical pneumonitis

Information on likely routes of exposure

Inhalation	See above
Skin contact	See above
Eye contact	See above
Ingestion	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.
The following data is for Xylene:
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** Data for Xylene:
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): 3.12 (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.

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.



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

SECTION 14: Transport Information

ROAD (ADR)

14.1	UN Number	1263
14.2	UN Proper shipping name	PAINT
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	1263
14.2	UN Proper shipping name	PAINT
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No

RAIL (RID)

14.1	UN Number	1263
14.2	UN Proper shipping name	PAINT
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No

AIR (IATA/ICAO)

14.1	UN Number	1263
14.2	UN Proper shipping name	PAINT
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No



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

SEA (IMDG)

14.1	UN Number	1263
14.2	UN Proper shipping name	PAINT
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.



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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.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
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, 2nd Ed., 2011

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:

Version:	1.1
Issue date:	05/10/2016
Previous Version:	Not numbered
Issue date of previous version:	November 1996
Sections changed from previous version:	All sections reviewed and revised



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

ADE HEAT RESISTING MATT BLACK

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

1.1 Product identifier

Product name:	ADE HEAT RESISTING MATT BLACK
Product code:	2600-5-2
Product description:	Heat resistant coating.
CAS No.:	Not applicable.
EC No.:	Not applicable.
Index No.:	Not applicable.

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

Identified use(s):	Protection and decoration of metal fabrications or suitably prepared substrates.
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

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

In case of emergency, call:

+44 (0) 7774 460658 (UK number, 24 hours, 7 days)

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 Damage 1; H318

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.

H318: Causes serious eye damage.

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



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

surfaces. No smoking.

P260: Do not breathe vapours.

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

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P301 + P310: IF SWALLOWED: Immediately call a doctor/physician.

P331: Do NOT induce vomiting.

P305 + P351 + P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a doctor/physician.

P501: Dispose of contents/container to hazardous waste.

Supplemental Hazard information (EU):

None

Contains:

Xylene, Ethylbenzene, Butanol

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.: 01-2119488216-32</i>	28 - 52	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	9 -13	100-41-4	202-849-4	601-023-00-4	Flam. Liq. 2; H225 Acute Tox. 4; H332
Butanol	15	78-83-1	201-148-0	603-108-00-1	Flam. Liq. 3; H226 Eye Dam. 1; H318



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

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification
REACH Registration no.: 01-2119484609-23					Skin Irrit. 2; H315 STOT SE3; H335 STOT SE3; H336

See Section 16 for full description of H statements.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

INHALATION:

Remove patient to fresh air and keep at rest. If there are breathing problems, seek medical advice.

SKIN CONTACT:

Remove contaminated clothing immediately. Wash affected area with copious amounts of soap and water. Seek medical advice if symptoms persist.

EYE CONTACT:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice.

INGESTION:

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 damage, 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

Suitable extinguishing media:

Foam, CO2 or dry powder.

Unsuitable extinguishing media:

Do not use water jet.



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

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.

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: 24°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 clearing 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



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containers for disposal. Containers should be sealed before being disposed of via an authorised waste disposal contractor.

6.3.3 Other advice

None

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)

Protection and decoration of metal fabrications or suitably prepared substrates.



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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, 2nd Ed., 2011

Substance	CAS no.	LTEL (8 hr TWA)		STEL (15 min)	
		ppm	mg/m ³	ppm	mg/m ³
Xylene	1330-20-7	50	220	100	441
Ethylbenzene	100-41-4	100	441	125	552
Butanol	78-83-1	50	154	75	231

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 ³ Long-term: 180 mg/kg/day	Not available

Predicted No-Effect Concentration (PNEC)



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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

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: Black liquid

Odour: Solvent



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Odour threshold:	Not available
pH:	Not applicable
Melting/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	24°C
Evaporation rate:	Not available
Flammability (solid; gas):	Not applicable
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	Not available.
Vapour density:	Not available
Relative density:	0.9 to 1.2 (Water = 1)
Solubility:	Insoluble in water
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	2.5 to 3.5 poise (ICI rotothinner, 20°C)
Explosive properties:	Vapour may form explosive mixture with air
Oxidising properties:	Not oxidising

9.2 Other information

None

SECTION 10: Stability and Reactivity

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



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

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	Harmful in contact with skin. Harmful if inhaled.
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	Causes serious eye damage.
Skin sensitisation	Not classified. The product does not contain substances classified as skin sensitisers above the classification thresholds.
Respiratory irritation	Vapour irritates the nose, throat and lungs.
Respiratory sensitisation	No evidence of respiratory sensitisation.
Germ cell mutagenicity	Not mutagenic.
Carcinogenicity	Not carcinogenic.
Reproductive toxicity	Not classified. The product does not contain substances classified for reproductive toxicity above the classification thresholds.
Specific Target Organ Toxicity – single exposure	Inhalation of high concentrations of vapour may cause respiratory tract irritation, headaches, dizziness, nausea and other central nervous system effects.
Specific Target Organ Toxicity – repeated exposure	Prolonged or repeated inhalation of high concentrations of vapour can cause kidney, liver and central nervous system damage.
Aspiration hazard	If ingested, may be aspirated into the lungs and cause chemical pneumonitis

Information on likely routes of exposure

Inhalation	See above
Skin contact	See above
Eye contact	See above



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Ingestion See above

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

Other information None

SECTION 12: Ecological Information

- 12.1 Toxicity** The product is low hazard for the environment. The following data is for Xylene:
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** Data for Xylene:
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): 3.12 (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.



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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.

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	1263
14.2	UN Proper shipping name	PAINT
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	1263
14.2	UN Proper shipping name	PAINT
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No

RAIL (RID)

14.1	UN Number	1263
14.2	UN Proper shipping name	PAINT
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	No

AIR (IATA/ICAO)

14.1	UN Number	1263
14.2	UN Proper shipping name	PAINT
14.3	Transport hazard class(es)	3
14.4	Packing group	III



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

14.5 Environmental hazards No

SEA (IMDG)

14.1 UN Number 1263
14.2 UN Proper shipping name PAINT
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.



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

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.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
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, 2nd Ed., 2011

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.

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