

SAFETY DATA SHEET BLACK BITUMEN PAINT

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name BLACK BITUMEN PAINT
Synonyms, Trade Names Bitcote
REACH Registration notes Registration number is not applicable as this is a mixture.

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

Identified uses SU 3 - INDUSTRIAL USES SU 21 - CONSUMER USES SU 22 - PROFESSIONAL USES PC9a - COATINGS AND PAINTS, THINNERS
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Bartoline limited
Barmston Close
Beverley
East Yorkshire
HU17 0LW
01482 678710
fax 01482 872606
HSE MANAGER
www.bartoline.co.uk

1.4. Emergency telephone number

01482 678727 0800-1700 Monday to Friday NHS 111 SERVICE (24 Hour General Public)

National Emergency Telephone Number

National Poisons Information Service (24hours) 0844 892 0111

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Liq. 3 - H226
Human health EUH066;STOT SE 3 - H336;STOT RE 1 - H372
Environment Aquatic Chronic 2 - H411

Classification (1999/45/EEC)

Xn;R48/20. N;R51/53. R10, R66, R67.

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

Human health

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Product has a defatting effect on skin.

Environment

The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12 as well.

Physical and Chemical Hazards

Heating will generate vapours which may form explosive vapour/air mixtures.

2.2. Label elements

Contains Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Label In Accordance With (EC) No. 1272/2008



BLACK BITUMEN PAINT

Signal Word	Danger	
Hazard Statements		
	H226	Flammable liquid and vapour.
	H336	May cause drowsiness or dizziness.
	H372	Causes damage to organs Central nervous system through prolonged or repeated exposure if inhaled.
	H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements		
	P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P260	Do not breathe vapour/spray.
		Wear PVC or Nitrile coated gloves and safety glasses.
		IF INHALED: Remove person to fresh air and keep comfortable for breathing.
		Call a Doctor/NHS111 if you feel unwell.
		P303+352 IF ON SKIN: Wash with plenty of soap and water.
	P314	Get medical advice/attention if you feel unwell.
	P403+233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
		P501 Dispose of contents/container to hazardous waste collection point.
Supplementary Precautionary Statements		
	P233	Keep container tightly closed.
Supplemental label information		
	EUH066	Repeated exposure may cause skin dryness or cracking. EU Limit for this product (CatA/i) is 500g/l (2010). This product contains max 385g/l.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		30-60%
CAS-No.:	EC No.: 919-446-0	Registration Number: 01-2119458049-33-XXXX
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Flam. Liq. 3 - H226	Xn;R65,R48/20.	
EUH066	N;R51/53.	
STOT SE 3 - H336	R10,R66,R67.	
STOT RE 1 - H372		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		

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

REACH Registration notes Registration number is not applicable as this is a mixture.

Ingredient notes

Under REACH some substances were registered which did not previously have an EC number assigned, or for which a registrant did not indicate the existing assigned EC number. These substances may have been assigned a Provisional List number by ECHA's IT systems or by ECHA's Substance ID team. In time ECHA plans to verify the substance identification of these substances, and it is only when the substance identification has been verified that the provisional list number will be published in the EC inventory and become official.

Composition Comments

A complex and variable combination of paraffinic and aromatic hydrocarbons having a carbon number range predominantly of C9 to C12 and boiling in the range of approximately 135 to 220 degrees C. The aromatic content is between 2% and 25%.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

BLACK BITUMEN PAINT

Inhalation

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped.

Ingestion

Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. Get medical attention.

Skin contact

Remove affected person from source of contamination. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation.

Vapours may cause drowsiness and dizziness. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Prolonged skin contact may cause redness and irritation.

Eye contact

Irritation of eyes and mucous membranes.

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

No specific chemical antidote is known to be required after exposure to this product. Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use: Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. DO NOT use water if avoidable.

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

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

Vapours are heavier than air and may spread near ground to sources of ignition. Solvent vapours may form explosive mixtures with air.

Specific hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.3. Methods and material for containment and cleaning up

BLACK BITUMEN PAINT

Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Scrape up uncured product and place into a container for disposal. Alternatively allow to set hard and scrape up. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12 as well. See section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment. Keep away from heat, sparks and open flame. Risk of vapour concentration on the floor and in low-lying areas. Contaminated rags and cloths must be put in fireproof containers for disposal. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. During application and drying, solvent vapours will be emitted.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry and cool place. Store under well-ventilated conditions at a temperature below 25°C.

Storage Class

Flammable liquid storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Open containers slowly in order to release any pressure build up that may occur. Apply by brush, dipping or spraying. Keep containers closed when not in use. DO NOT spray on windy days and protect plants from splashes. Keep out of reach of children. Avoid all contact with skin and eyes.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	WEL		350 mg/m3			

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

DNEL

Industry	Dermal	Long Term	Systemic Effects	44 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	330 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	26 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	71 mg/m3
Consumer	Oral	Long Term	Systemic Effects	26 mg/kg/day

The DNEL data quoted is for the main hazardous ingredient.

No PNEC available as this substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Ingredient Comments

The Workplace Exposure Limited quoted is an advisory level from the CEFIC-HSPA The figures quoted below are taken from the registration document.

DNEL

Industry	Dermal	Long Term	Systemic Effects	44 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	330 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	26 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	71 mg/m3
Consumer	Oral	Long Term	Systemic Effects	26 mg/kg/day

8.2. Exposure controls

Protective equipment

BLACK BITUMEN PAINT



Process conditions

Although outdoor use will not normally require any respiratory protection, it is recommended that users who are in contact with the product for long periods use a respirator which conforms to EN141 with a Type A2- P2 filter.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Hand protection

Protective gloves and goggles must be used if there is a risk of direct contact or splash.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower.

Hygiene measures

Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

Environmental Exposure Controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Thick Liquid
Colour	Black.
Odour	Paint like
Initial boiling point and boiling range	>150
Melting point (°C)	Not available.
Relative density	0.90-0.93 20
Bulk Density	Not relevant
Vapour density (air=1)	>1g/cm ³
Vapour pressure	Ready to use state
Evaporation rate	2.400 (MM Mercury) 20
pH-Value, Conc. Solution	0.19
Viscosity	Not relevant
Flash point	>1200 sec. 3mm
Flammability Limit - Lower(%)	ISO 2431
Flammability Limit - Upper(%)	39 CC (Closed cup).
Partition Coefficient (N-Octanol/Water)	0.6
Explosive properties	8.0
Oxidising properties	Not applicable.
Comments	Not applicable.
	Not oxidising (based on the chemical structure of the substance and the oxidation states of the constituents elements).
	Information declared as "Not available, Not relevant or Not applicable" is not considered justified for enabling proper control measures to be taken.

BLACK BITUMEN PAINT

9.2. Other information

Volatility Description	Volatile
Volatile By Vol. (%)	42-45
Volatile Organic Compound (VOC)	385g/l

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

No particular stability concerns. Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Burning generates CO, CO₂ and acrid smoke.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Acids, oxidising.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

THE DATA QUOTED IS FOR THE MAIN SOLVENT FRACTION

Inhalation

When working extensively on big surfaces in small and badly ventilated rooms, vapours may develop in concentrations which may cause headache and irritation of the eyes and the respiratory system.

Ingestion

Gastrointestinal symptoms, including upset stomach.

Skin contact

Repeated exposure may cause skin dryness or cracking.

Eye contact

Irritating and may cause redness and pain.

Route of entry

Inhalation. Ingestion. Skin and/or eye contact.

Target Organs

Eyes Central nervous system Gastro-intestinal tract Mucous membranes Skin

Medical Symptoms

Irritation of eyes and mucous membranes. Liquid irritates mucous membranes and may cause abdominal pain if swallowed. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

Medical Considerations

Skin disorders and allergies.

BLACK BITUMEN PAINT

Specific effects

Frequent inhalation of vapours, may cause respiratory allergy. Frequent of prolonged skin contact destroys the lipid cutaneous layer and may cause dermatitis.

Toxicological information on ingredients.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 15000 mg/kg Rat

REACH dossier information OECD 401

Acute Toxicity (Dermal LD50)

> 3400 mg/kg Rat

REACH dossier information 24 hour

Acute Toxicity (Inhalation LC50)

> 13100 mg/l (vapours) Rat 4 hours

OECD 403

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

the toxicological data for the hazardous ingredients is shown below.

Acute Fish Toxicity

Toxic to aquatic environment and may cause long term adverse effects.

Ecological information on ingredients.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Acute Toxicity - Fish

LC50 96 hours ~ 10-30 mg/l Onchorhynchus mykiss (Rainbow trout)

REACH dossier information OECD 203

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours ~ 10-22 mg/l Daphnia magna

OECD 202

Acute Toxicity - Aquatic Plants

EC50 72 hours ~ 4.1 mg/l Selenastrum capricornutum

REACH dossier information OECD 201

72 hours ~ 4.6-10 mg/l Selenastrum capricornutum

REACH dossier information OECD 201

Chronic Toxicity - Fish Early life Stage

LOEC 21 days ~ 0.13 mg/l Onchorhynchus mykiss (Rainbow trout)

REACH dossier information QSAR Petrox

Chronic Toxicity - Aquatic Invertebrates

LOEC 21 days ~ 0.28 mg/l Daphnia magna

OCDE 211

12.2. Persistence and degradability

Degradability

This substance is product is expected to biodegrade slowly.

BLACK BITUMEN PAINT

Ecological information on ingredients.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Degradability

Readily Biodegradable OECD 301F 80% after 28 days

12.3. Bioaccumulative potential

Partition coefficient

Not applicable.

12.4. Mobility in soil

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Make sure containers are empty before discarding (explosion risk). Liquid components can be disposed of by incineration. Recover and reclaim or recycle, if practical. Waste material is classified as hazardous waste and should be disposed of by incineration or collected by a registered waste disposal company, operating within the scope of the Hazardous waste Regulations 2005 in the UK or local equivalent regulations in other countries.

Waste Class

EU waste catalogue code 08 01 11 waste paint and varnishes containing organic solvents or other dangerous substances. Empty used containers should be disposed of as waste code 15 01 10 packaging containing residues of or contaminated by dangerous substances. Any absorbents used for clearing up spills should be disposed of using waste code 15 02 02 absorbents contaminated by dangerous substances.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1999
UN No. (IMDG)	1999
UN No. (ICAO)	1999

14.2. UN proper shipping name

Proper Shipping Name TARS, LIQUID

14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3

Transport Labels

BLACK BITUMEN PAINT



14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

EMS	F-E, S-E
Hazard No. (ADR)	30
Tunnel Restriction Code	(D/E)

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

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations. Article 4 of Directive 2004/42/EC on the limitation of emissions of volatile organic compounds due to the use of organic solvents in paints and varnishes indicates that products set out in Annex I must carry a label indicating: The sub category of the product and the relevant VOC limit value in g/l as referred to in annex II; the maximum content of VOC in g/l of the product in a ready to use condition.

Environmental Listing

Control of Pollution Act 1974.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Dangerous Preparations Directive 1999/45/EC. 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. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

BLACK BITUMEN PAINT

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40) Health and Safety at Work Act (As Amended) 1974 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 (CDG 2007). Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

15.2. Chemical Safety Assessment

A Chemical safety assessment has been carried out for the solvent constituent.

SECTION 16: OTHER INFORMATION

General information

When surfaces are to be prepared for painting account must be taken of the age of the property and the possibility that lead may be present. As a working rule you should assume that this will be the case if the age of the property is pre 1960. Where possible wet flattening or chemical stripping methods should be used with surfaces of this type to avoid the formation of lead dust.

Training Advice

The information on directions for use can be found on the product label. It is important to ensure that anyone using this product in the workplace has been adequately trained and in particular: The use of personal protective equipment. methods of cleaning up and disposal of waste. The basic first aid arrangements.

Revision Date 20/10/2014

Revision 7

Supersedes date 20/10/2014

Risk Phrases In Full

R10 Flammable.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

H372 Causes damage to organs <<Organs>> through prolonged or repeated exposure if inhaled.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
H411 Toxic to aquatic life with long lasting effects.

Disclaimer

The information contained in this data sheet is provided in accordance with the requirements of the Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) The product should not be used for purposes other than those shown in Section 1.2. As the specific conditions of use are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet is based on the present knowledge and the current EC and Uk Legislation. It provides guidance on health, safety and environmental aspects of the product and should not be taken as a product specification.