



SAFETY DATA SHEET CREOSOTE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	CREOSOTE
CAS-No.	8001-58-9
EC No.	232-287-5
SUPPLIER	Bartoline Limited Barmston Close Beverley East Yorkshire HU17 0LW Tel. 01482 678710 Fax 01482 872606 HSE Manager Email info@bartoline.co.uk
APPLICATION	A wood preservative for use by professional operators against wood rotting fungi and wood destroying insects on external timbers.
EMERGENCY TELEPHONE	01482 678727 0800-1700

2 HAZARDS IDENTIFICATION

Harmful in contact with skin and if swallowed. May cause cancer. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to eyes, respiratory system and skin.

CLASSIFICATION (1999/45) Carc. Cat. 1;R45. Xn;R21/22. Xi;R36/37/38. N;R50/53.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
BENZ(A)ANTHRACENE	200-280-6	56-55-3	5-10%	Carc. Cat. 2;R45 N;R50/53
CRESOL Mixed Isomers	215-293-2	1319-77-3	< 1%	T;R24/25 C;R34
DIPHENYL	202-163-5	92-52-4	5-10%	Xi;R36/37/38 N;R50/53
NAPHTHALENE	202-049-5	91-20-3	< 1%	Carc. Cat. 3;R40 Xn;R22 N;R50/53
PHENOL	203-632-7	108-95-2	< 1%	Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22
XYLENOL	215-089-3	1300-71-6	1-5%	T;R24/25 C;R34 N;R51/53

The Full Text for all R-Phrases are Displayed in Section 16

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COMPOSITION COMMENTS

This coal tar product is a complex mixture of constituents of variable composition.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. Place unconscious person on the side in the recovery position and ensure breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration.

INGESTION

Get medical attention immediately! Rinse mouth thoroughly. Provide rest, warmth and fresh air. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

CREOSOTE

SKIN CONTACT

Remove affected person from source of contamination. Promptly wash contaminated skin with water. Promptly remove clothing if soaked through and wash the skin with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

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

SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Move container from fire area if it can be done without risk. Use supplied air respirator if product is involved in a fire. Containers close to fire should be removed or cooled with water.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS

When heated and in case of fire, toxic vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing. Use air-supplied respirator during fire fighting.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

ENVIRONMENTAL PRECAUTIONS

Do not allow ANY environmental contamination. Never use water by itself on spillage; this will spread the spill and cause further contamination. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Absorb small quantities with paper towels and evaporate in safe place (fume hood). Allow sufficient time for vapours to completely clear the hood ducts, then burn the paper in a location away from combustible materials. Flush spilled material into suitable retaining areas or container with large quantities of water.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

USAGE DESCRIPTION

Apply by brush, dipping or spraying. DO NOT spray on windy days and protect plants from splashes.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place.

STORAGE CLASS

Toxic storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
CRESOL Mixed Isomers	OES	5 ppm(Sk)	22 mg/m3(Sk)			
DIPHENYL	OES	0.2 ppm	1.3 mg/m3	0.6 ppm	3.8 mg/m3	
NAPHTHALENE	OEL		50 mg/m3			
PHENOL	WEL	2 ppm(Sk)	7.8 mg/m3(Sk)			Sk

WEL = Workplace Exposure Limit.

OEL = Occupational Exposure Limit.

Sk = Can be absorbed through skin.

PROTECTIVE EQUIPMENT

CREOSOTE



PROCESS CONDITIONS

DO NOT use on internal timbers of residential property 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.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use protective gloves made of: Rubber, neoprene or PVC.

EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

Use appropriate skin cream to prevent drying of skin. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. **DO NOT SMOKE IN WORK AREA!**

SKIN PROTECTION

Wash hands after use and wash off any adhesive which comes into contact with skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Dark coloured liquid		
COLOUR	Dark brown.		
ODOUR	Strong Aromatic		
SOLUBILITY	Immiscible with water Soluble in: Hydrocarbons.		
BOILING POINT (°C)	180 - 350	RELATIVE DENSITY	0.91 - 1.12 20
VAPOUR DENSITY (air=1)	Not dtermined	FLASH POINT (°C)	70
VOLATILE ORGANIC COMPOUND (VOC)	910 - 1120g/l		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

Strong acids. Natural Rubber

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Acrid smoke/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

This product contains coal tar. Volume 35 of IARC monograph states that there is limited evidence that coal atr derived Creosotes are carcinogenic in humans and sufficient evidence for the carcinogenicity of Creosote in experiemetal animals. Limitations in the human exposure studies reviewed by IARC (including the presence of other chemicals, small study populations and not well documented exposure levels) contributed to IRAC's conclusions regarding human exposure to creosote. When applied to the skin of mice in experimental studies, creosote produced skin tumors and in one study produced lung tumours.

GENERAL INFORMATION

Known or suspected carcinogen for humans.

CREOSOTE

INHALATION

SHORT TERM: The substance as a whole may cause irritation. One or more constituents may cause nausea, vomiting, headache, central nervous system effects, blood disorders and eye damage. **LONG TERM:** The substance as a whole may cause nausea, vomiting and headache. One or more constituents may cause irritation, central nervous system damage, liver cancer, kidney cancer, nasal cancer and lung cancer.

INGESTION

SHORT TERM: The substance as a whole may cause irritation (possibly severe), changes in body temperature, nausea, vomiting, difficulty breathing, irregular heartbeat, headache, dizziness, bluish skin colour, convulsions and cardiovascular collapse. **LONG TERM:** The substance as a whole may cause irritation, nausea, vomiting, headache, gastrointestinal effects, dizziness, changes in body temperature, visual disturbances, difficulty breathing, irregular heartbeat, bluish skin colour and cardiovascular collapse. One or more of the constituents may cause liver cancer.

SKIN CONTACT

SHORT TERM: The substance as a whole may cause irritation (possibly severe), thermal burns from heated material, skin discolouration, skin disorders, sensitivity to sunlight, changes in body temperature, nausea, vomiting, headache, difficulty breathing, irregular heartbeat, bluish skin colour and convulsions. One or more constituents may cause bluish skin colour and convulsions. One or more constituents may cause central nervous system damage. **LONG TERM:** The substance as a whole may cause dermatitis, skin discolouration, skin disorders, sensitivity to sunlight, changes in body temperature, nausea, vomiting, headache, difficulty breathing, irregular heartbeat, bluish skin colour, lung cancer and skin cancer.

EYE CONTACT

SHORT TERM: The substance as a whole may cause irritation (possibly severe), sensitivity to sunlight. **LONG TERM:** The substance as a whole may cause irritation and sensitivity to sunlight.

ROUTE OF ENTRY

Ingestion. Skin and/or eye contact. Inhalation. Skin absorption.

TARGET ORGANS

Eyes. Skin. Central nervous system. Kidneys. Liver.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

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.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

Expected to be slowly but ultimately biodegradable.

ACUTE FISH TOXICITY

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

13 DISPOSAL CONSIDERATIONS

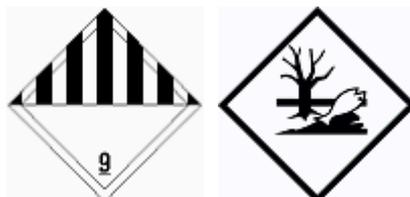
GENERAL INFORMATION

Waste is classified as hazardous waste. When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste, residue, empty containers, discarded work clothes and used disposable towels must be collected in designated receptacles, labelled with content. The packaging should be collected for reuse. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

DISPOSAL METHODS

Liquid components can be disposed of by incineration. 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.

14 TRANSPORT INFORMATION



UK ROAD CLASS

9

PROPER SHIPPING NAME

ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID NOS (CREOSOTE OIL)

CREOSOTE

UN NO. ROAD	3082	UK ROAD PACK GR.	III
ADR CLASS NO.	9	ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(E)
HAZARD NO. (ADR)	90 Environmentally hazardous substance; miscellaneous dangerous substances.	ADR LABEL NO.	9
RID CLASS NO.	9	UN NO. SEA	3082
IMDG PACK GR.	III	EMS	F-A, S-F
MARINE POLLUTANT	YES	UN NO. AIR	9

15 REGULATORY INFORMATION

LABELLING



Toxic



Dangerous for the environment

CONTAINS

BENZ(A)ANTHRACENE

RISK PHRASES

- R21/22 Harmful in contact with skin and if swallowed.
- R45 May cause cancer.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES

P11 Restricted to professional users.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SYNTHETIC RUBBER/PVC GLOVES AND EYE PROTECTION when using.

AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDRER REGULARLY.

DO NOT BREATHE SPRAY MIST. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance booklet HS (G) 53. Respiratory protective equipment - a practical guide for users.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

TAKE OFF IMMEDIATELY all contaminated clothing.

DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES.

COVER WATER STORAGE TANKS before application.

UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS OR UNTIL SURFACES ARE DRY.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

DO NOT APPLY in the presence of naked flames, hot surfaces or unprotected electrical equipment.

DANGEROUS TO FISH AND OTHER AQUATIC LIFE.

DO NOT CONTAMINATE watercourses or ground.

ALL BATS ARE PROTECTED UNDER THE WILDLIFE AND COUNTRYSIDE ACT 1981. BEFORE TREATING ANY STRUCTURE USED BY BATS, CONSULT ENGLISH NATURE, SCOTTISH NATURAL HERITAGE OR THE COUNTRYSIDE COUNCIL FOR WALES.

AVOID ALL CONTACT WITH PLANT LIFE.

DO NOT USE ON INTERNAL TIMBERS OF RESIDENTIAL PROPERTY.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

WASH HANDS AND EXPOSED SKIN before meals and after use.

WASH SPLASHES from skin or eyes immediately.

KEEP IN ORIGINAL CONTAINER. tightly closed, in a safe place.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

CREOSOTE

ENSURE ADEQUATE VENTILATION when applying.

VENTILATE TREATED AREAS THOROUGHLY after application.

UK REGULATORY REFERENCES

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 1988.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

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 Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 (CDG 2007) 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. 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.

16 OTHER INFORMATION

GENERAL INFORMATION

WHEN USED FOR THE OPURPOSE IF PRESERVING WOOD THIS MATERIAL IS REGULATED UNDER THE CONTROL OF PESTICIDES REGULATIONS 1986

REVISION DATE 13/04/2010

REV. NO./REPL. SDS GENERATED 1

RISK PHRASES IN FULL

R34	Causes burns.
R22	Harmful if swallowed.
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R45	May cause cancer.
R68	Possible risk of irreversible effects.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R24/25	Toxic in contact with skin and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER

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.