

SECTION 1 IDENTITY OF SUBSTANCE OR PREPARATION & COMPANY**COMPANY/UNDERTAKING:** Advanced Chemical Specialties Limited

9, Bofors Park, Artillery Road, Yeovil, Somerset, BA22 8YH UK

☎ (+44) 01935-414012. 📠 (+44) 01935-414022. ✉ info@acslimited.co.uk**PRODUCT NAME:** CHANNELWOOD BORACOL 10 WOOD PRESERVATIVE & SURFACE BIOCIDES**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / preparation:

WOOD PRESERVATIVE AND SURFACE BIOCIDES FOR PROFESSIONAL USE ONLY AGAINST WOOD ROTTING FUNGI AND WOOD DESTROYING INSECTS

1.3 Details of the supplier of the safety data sheet

Advanced Chemical Specialties Ltd

9, Bofors Park, Artillery Road, Yeovil, Somerset, BA22 8YH UK

☎ (+44) 01935-414012. 📠 (+44) 01935-414022. ✉ info@acslimited.co.uk**SECTION 2 HAZARD IDENTIFICATION****2.1 Classification of the substance or mixture**

Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**2.2 Label elements****Labelling (GHS):****Signal Word: WARNING****Special identification instructions:**

H361 – suspected of damaging fertility or the unborn child

H411 – toxic to aquatic life with long lasting effects

H318 – causes serious eye damage

H315 – causes skin irritation

2.3 Other hazards

P201 – obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood

P281 – Use personal protective equipment as required

P308+313 – If exposed or concerned: Get medical advice/attention

P405 – Store Locked up

P501 – Dispose of contents/container in accordance with local/regional/national regulations

2.4 Supplementary Statements according to UK Control Of Pesticides Regulations 1986

FOR USE ONLY AS A SURFACE BIOCIDES AND TIMBER PRESERVATIVE

FOR USE BY PROFESSIONAL OPERATORS

The (COSHH) Control of Substances Hazardous to Health Regulations 2002 may apply to the use of this product at work. Engineering control of operator exposure must be used where reasonable practicable in addition to the following items of personal protective equipment. AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDRY REGULARLY. Otherwise wear suitable respiratory protective equipment and eye protection (see HSE Guidance Booklet HS(G)53 'The Selection, Use and Maintenance of Respiratory Protective Equipment - A Practical Guide). However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection. 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. DO NOT USE NEAR DRAINS. PREVENT SURFACE RUN-OFF FROM ENTERING DRAINS. REMOVE OR COVER FISH TANKS OR BOWLS before application. AVOID ALL CONTACT WITH PLANTLIFE. 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 release to the environment. Refer to Safety Data Sheet.

Avoid exposure – Obtain special instructions before use. If swallowed, seek medical attention immediately and show this container or label.

Keep only in original container. KEEP IN A SAFE PLACE. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS. This product contains substances known to be hazardous to the environment. Do not contaminate ground, waterbodies or watercourses with chemicals or used container. VENTILATE TREATED AREAS THOROUGHLY after application. To avoid risks to man and the environment, comply with the instructions for use.

Do not handle until all safety precautions have been read and understood. Do not breathe mist/spray. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. If exposed or concerned: Get medical advice/attention immediately. Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water. Remove contact lenses if present and safe to do. Continue rinsing. If irritation persists: Get medical attention/advice.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.

Store Locked up

Dispose of contents at a hazardous waste site in accordance with local/regional/national regulations

Avoid release to the environment

USE ONLY IN ACCORDANCE WITH THE INSTRUCTIONS ON THE LABEL.

Contains Disodium Octaborate 10% w/w (100g/l) Benzalkonium Chloride 2.5% w/w (25g/l)

THIS PRODUCT IS APPROVED UNDER THE CONTROL OF PESTICIDES REGULATIONS 1986 FOR USE AS DIRECTED
READ ALL PRECAUTIONS BEFORE USE

HSE No 10599

WOOD PRESERVATIVE AND SURFACE BIOCIDES FOR PROFESSIONAL USE. USE FOR THE CONTROL OF LICHEN, FUNGAL AND ALGAL GROWTH ON STONEMASONRY, BRICKWORK, MASONRY AND WOOD. ALSO FOR USE ON METAL PYLONS.

APPLY BY BRUSH, SPRAY AND INJECTION

BRUSH: APPLY 1 LITRE OF PRODUCT PER 6 – 8m² OF SURFACE

SPRAY: APPLY 1 LITRE OF PRODUCT PER 4 TO 5m² OF SURFACE AT A PRESSURE OF LESS THAN 3bar

INJECTION: INJECT AS NECESSARY (USUALLY 2.5 LITRES PER SQUARE METRE FOR 0.23M (9") BRICKWORK).

SECTION 3	COMPOSITION/INFORMATION ON INGREDIENTS
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3.1 Substances

Not Applicable

3.2 Mixtures**Product/ingredient**

Disodium Octaborate Tetrahydrate

Benzalkonium Chloride

Identifier

CAS No 12280-03-4

CAS No 63449-41-2

% in preparation

10% w/w

2-3%w/w

R-Phrase (CLP)

Repr 1A H360FD

H302

H312

H314

H400

H302 Stot RE2 H373

Monoethylene Glycol

CAS No 107-21-1

10-20%w/w

3.2.1 Chemical characterization (preparation)

Wood preservative and surface biocide

SECTION 4	FIRST AID MEASURES
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4.1 Description of first aid measures**General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After inhalation:

Provide fresh air. Keep warm and rested.

After contact with the skin:

Wash with plenty of water or water and soap. If irritation occurs, seek medical advice (show label or SDS where possible).

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After swallowing:

Do not induce vomiting. Rinse mouth with clean water and seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

SECTION 5	FIRE FIGHTING MEASURES	EAC -
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5.1 Extinguishing media**Suitable extinguishing media:**

Foam, dry chemical. waterspray

Extinguishing media which must not be used for safety reasons:

Do not use waterjet

5.2 Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Hazardous decomposition products: carbon Monoxide, carbon dioxide and oxides of nitrogen.

Do not allow extinguishing water to enter sewerage, the soil or inshore waters. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Heating of unbroken containers may lead to pressure rise with the subsequent risk of bursting.

5.3 Advice for firefighters**Special protective equipment for fire fighting:**

Appropriate breathing apparatus may be required. Decomposition products may include the following materials: carbon monoxide, Carbon dioxide, smoke, oxides of nitrogen.

SECTION 6	ACCIDENTAL RELEASE / SPILLAGE CONTROL MEASURES
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6.1 Personal precautions, protective equipment and emergency procedures

Wearing personal protection equipment (see section 8), but without taking risks, shut-off the source of the leak or invert containers with the leak uppermost. Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapours. If material is released indicate risk of slipping.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

6.3 Methods and material for containment and cleaning up

Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth, vermiculite or dry sand. Place into a suitable, labelled container and store in a safe place. Dispose of according to local regulations. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Any remaining material, once fully dried can be removed by brush and vacuum sweeping and placed into a suitable, marked container for disposal.

Further information:**6.4 Reference to other sections**

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7**HANDLING AND STORAGE****7.1 Precautions for safe handling****General information:**

Store in cool, dry conditions, out of reach of children and apart from food, drink and animal feedingstuffs.

Precautions for safe handling:

Wear suitable gloves and eye/face protection when handling open packages.

Open packs should be re-sealed before being returned to store to avoid the formation of Boric Acid crystals.

Precautions against fire and explosion:

None

7.2 Conditions for safe storage, including any incompatibilities**Conditions for storage rooms and vessels:**

Keep tightly sealed in original container, in cool, dry conditions

Advice for storage of incompatible materials:

Keep apart from strong acids and bases.

Further information for storage:

None

Minimum temperature allowed during storage and transportation: No minimum storage temperature

Maximum temperature allowed during storage and transportation: No maximum storage temperature

7.3 Specific end use(s)

Wood preservative and surface biocide for the control of wood boring insects, wood decay fungi, algae and moulds on stone, brick, masonry, wood and metal pylons .

SECTION 8**EXPOSURE CONTROLS/PPE****8.1 Control parameters****Maximum airborne concentrations at the workplace:**

No data is available in relation to this mixture

8.2 Exposure controls

See below

8.2.1 Exposure in the work place limited and controlled**General protection and hygiene measures:**

Wash hands and exposed skin before meals, smoking, using the toilet and after work. Remove contaminated clothing and launder before re-use.

Personal protection equipment:

Wear suitable coveralls and boots

Respiratory protection:

Wear suitable respiratory protection to EN 149 when opening, diluting and spraying diluted product. Recommended filter combination A2P3 or better. Consult your local RPE supplier for further advice

Hand protection

Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms.

Recommended gloves: Viton® or Nitrile

Breakthrough Time: 480 min

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Eye protection

Safety glasses with side shields are recommended (EN166)

Body Protection

Wear suitable overalls (EN467).

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters and soil

SECTION 9**PHYSICAL / CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties****General information:**

Physical state / form.....: Liquid

Colour: Clear-opaque

Odour: slight

Important information about the protection of health, safety and the environment:

Property:	Value:	Method:
Melting point / melting range	1 °C	
Boiling point / boiling range	„100 °C	
Flash point.....	Not determined	
Sustained combustibility.....	Not applicable	
Ignition temperature	Not determined	
Lower explosion limit (LEL)	No data available	
Upper explosion limit (UEL).....	No data available	
Vapour pressure.....	No Data available	
Density	1.10-1.15 g/cm ³	
Water solubility / miscibility.....	completely miscible	
pH-Value	approx. 7-8	
Viscosity (dynamic)	Not Determined	

9.2 Other information
None

SECTION 10	STABILITY AND REACTIVITY
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10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

May react with: acids and alkalis.

10.6 Hazardous decomposition products

None Known

SECTION 11	TOXICOLOGICAL INFORMATION
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11.1 Information on toxicological effects**11.1.1 Acute toxicity****Assessment:****Acute toxicity estimate (ATE):**

Disodium Octaborate Tetrahydrate LD₅₀ 2550mg/kg – Oral (Rat)

11.1.2 Skin corrosion/irritation**Assessment:**

For this endpoint no toxicological test data is available for the whole product. The product contains quaternary ammonium compounds, which may cause skin irritation

11.1.3 Serious eye damage / eye irritation**Assessment:**

For this endpoint no toxicological test data is available for the whole product. The product contains quaternary ammonium compounds, which may cause eye irritation

11.1.4 Respiratory or skin sensitization**Assessment:**

For this endpoint no toxicological test data is available for the whole product. The product contains no known skin sensitizers

11.1.5 Germ cell mutagenicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.6 Carcinogenicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product. Product contains no recognized carcinogenic material

11.1.7 Reproductive toxicity**Assessment:**

Animal ingestion studies of boric acid and sodium tetraborate, at high doses, indicate that they may have developmental and reproductive effects. Human studies of occupational exposure to borate dust currently show no adverse effects on reproduction

Mutagenic Study: NOAEL 17.5mg/kg/day – Oral rat

May damage fertility. May damage the unborn child

11.1.8 Specific target organ toxicity (single exposure)**Assessment:**

For this endpoint no toxicological test data is available for the whole product. Boracol 10 contains 1,2 Ethandiol classified as Acute Tox 4 – H302 STOT (Kidneys)

11.1.9 Specific target organ toxicity (repeated exposure)**Assessment:**

For this endpoint no toxicological test data is available for the whole product. Boracol 10 contains 1,2 Ethandiol classified as Acute Tox 4 – H302 STOT (Kidneys)

11.1.10 Aspiration hazard**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.11 Further toxicological information

SECTION 12**ECOLOGICAL INFORMATION****12.1 Toxicity****Assessment:**

According to current knowledge adverse effects on water purification plants are not expected.

21 day NOEC-LOEC levels 6-13mg/l (boron)

EC₅₀ 530ml/l – 24 hours (Daphnia) (boron)

EC₅₀ 10mg/l – 0.5 hours (Activated Sludge) (Benzalkonium Chloride)

12.2 Persistence and degradability**Assessment:**

The product contains no materials known to be persistent in soil.

12.3 Bioaccumulative potential**Assessment:**

Bioaccumulation is not expected to occur

12.4 Mobility in soil**Assessment:**

Separation by sedimentation.

12.5 Results of PBT and vPvB assessment

This product is not known to contain substances classified as PBT or vPBT.

12.6 Other adverse effects

None known

SECTION 13**WASTE DISPOSAL****13.1 Waste treatment methods****13.1.1 Material**

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator.

13.1.2 Un-cleaned packaging

Recommendation:

Completely discharge containers (no gel, no powder residues, scraped carefully). Containers may be recycled or re-used. Observe local/regional/national regulations on the disposal of hazardous waste.

13.1.3 Waste Disposal Legislation Ref No. (EC).

Dispose of in accordance with The Environmental Protection Act 1990, at a waste treatment site approved and licensed by the local authority and operated by an approved, competent and licensed waste disposal contractor.

Duty of care waste transfer form should specify: EWC (European Waste Code): 16 03 05

SECTION 14**TRANSPORT PRECAUTIONS****14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group****Road ADR:**

Not currently classified as hazardous for transportation by road

Railway RID:

Not classified as hazardous for transportation by rail

Transport by sea IMDG-Code:

Not classified as hazardous for transportation by sea

Air transport ICAO-TI/IATA-DGR:

Not classified as hazardous for transportation by air

14.5 Environmental hazards

See other sections of the safety data sheet

14.6 Special precautions for user

See other sections of the safety data sheet

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

Bulk transport in tankers is not intended.

SECTION 15**REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Relevant regulations:

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

SECTION 16	OTHER INFORMATION
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Key to risk phrases used in section 2.

H360 – may damage fertility or the unborn child

H412 – harmful to aquatic life with long lasting effects

H319 – causes serious eye irritation

H315 – causes skin irritation

H302 Stot RE2 H373 – Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated exposure (swallowing)

Further reading:

L9 – The Safe Use of Pesticides for Non-Agricultural Purposes

L25 – Personal Protective Equipment at Work

GS46 – In-situ Timber Treatment Using Timber Preservatives

EH/40 – Occupational Exposure Limits (revised annually)

The Health & Safety at Work Act 1974

HSG206 – Cost Effectiveness of Chemical Protective Gloves for the Workplace

HSG71 – The Storage of Packed Dangerous Substances

HSG53 – The Selection, Use and Maintenance of Respiratory Protective Equipment

The Environmental Protection Act 1990

The Collection and Disposal of Waste Regulations

L5 – The Control of Substances Hazardous to Health Regulations 2003 Approved Code of Practice

Information on these and other relevant publications may be found by contacting the following:

E-mail: hsebooks@prologue.uk.com or www.hsebooks.co.uk

Alternatively, most Approved Codes of practice are now available to download for free: visit www.hse.gov.uk or www.businesslink.gov.uk and click on 'Workplace Health and safety'

Or write to: HSE Books, P.O. Box 1999, Sudbury, Suffolk CO10 2WA (Tel: 01787-881165) and obtain a free copy of the HSE Books catalogue.

The Health and safety Executive can also keep you regularly updated with new legislation and HSE news by going to:

www.hse.gov.uk and following the links to the e-Bulletins

THE FOLLOWING SECTIONS SHOW CHANGED OR AMENDED INFORMATION:

New issue

COMPILED BY: P Parton

DATE: December 2018

NOTICE TO CUSTOMER:

ENSURE ALL POTENTIAL USERS OF THIS PRODUCT ARE AWARE OF THIS SDS PRIOR TO PRODUCT'S USE.

KEEP SDS IN A SAFE PLACE READILY LOCATABLE IN CASE OF FUTURE USE.

READ THIS SDS IN CONJUNCTION WITH ANY LABEL AND DIRECTIONS FOR USE ON THE PRODUCT CONTAINER.

DESTROY ALL OBSOLETE COPIES RELATING TO THIS PRODUCT.

THIS SDS RELATES ONLY TO THE PRODUCT SPECIFIED.

COPIES OF THIS DOCUMENT ARE AVAILABLE ON REQUEST.

THIS SAFETY DATA SHEET IS BASED ON THE BEST OF CURRENT INFORMATION AND ADVICE AVAILABLE TO US AND IS BELIEVED TO BE TRUE AND ACCURATE. NO LIABILITY CAN BE ACCEPTED FOR ANY LOSS, DAMAGE OR INJURY AS CONDITIONS OF USE ARE OUTSIDE OUR CONTROL. THIS IS NOT A TECHNICAL SPECIFICATION.