

SAFETY DATA SHEET**SDS No. 030/GHS/16**

Conforms to 1907/2006/EC (REACH) Annex II - UK

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:** BORACOL 5Rh SURFACE BIOCID**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / preparation:

WOOD PRESERVATIVE FOR AMATEUR AND PROFESSIONAL USE AGAINST WOOD ROTTING FUNGI, ALGAE, LICHENS 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:**

H315 – Causes skin irritation

H319 – Causes serious eye irritation

H413 – Harmful to aquatic life with long lasting effects

2.3 Other hazards

P281 – Use personal protective equipment as required

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

P101 – If medical advice is needed, have product label or container to hand

P102 – Keep out of reach of children

P233 + P234 – Keep in original container tightly closed

P260 – Do not breathe spray

P280 – Wear protective gloves

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

P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention

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

P363 – Wash contaminated clothing before re use

P273 – Avoid release to the environment

2.4 Supplementary Statements according to UK Control Of Pesticides Regulations 1986**FOR USE ONLY AS A SURFACE BIOCID AND TIMBER PRESERVATIVE**

Keep out of reach of children.

Wear protective gloves/protective clothing/eye protection. 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 APPLY TO SURFACES on which food or feed is stored, prepared or eaten. 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.

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.

KEEP IN A SAFE PLACE.

Wash with soap and water thoroughly after handling.

This product contains substances known to be hazardous to the environment. Do not contaminate ground, waterbodies or watercourses with chemicals or used container.

Do not eat, drink or smoke when using this product.
 VENTILATE TREATED AREAS THOROUGHLY after application.
 To avoid risks to man and the environment, comply with the instructions for use.

USE ONLY IN ACCORDANCE WITH THE INSTRUCTIONS ON THE LABEL.

Contains Disodium Octaborate 4.38% w/w (43.8g/l) Benzalkonium Chloride 2% w/w (20g/l)
 THIS PRODUCT IS APPROVED UNDER THE CONTROL OF PESTICIDES REGULATIONS 1986 FOR USE AS DIRECTED.
 WOOD PRESERVATIVE AND SURFACE BIOCIDES FOR AMATEUR USE. USE FOR THE CONTROL OF LICHEN, FUNGAL AND
 ALGAL GROWTH ON STONEMASONRY, BRICKWORK, MASONRY AND WOOD.

READ ALL PRECAUTIONS BEFORE USE

HSE No 8984

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not Applicable

3.2 Mixtures

Product/ingredient	Identifier	% in preparation	R-Phrase (CLP)
Disodium Octaborate Tetrahydrate	CAS No 12280-03-4	4.38% w/w	Repr 1A H360FD
Benzalkonium Chloride	CAS No 63449-41-2	2.00%w/w	H302 H312 H314 H400

3.2.1 Chemical characterization (preparation)

Wood preservative/ Surface biocide

SECTION 4 FIRST AID MEASURES

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 -

5.1 Extinguishing media

Suitable extinguishing media:

Essentially non-combustible. Use extinguishing media suitable for surrounding fire.

Extinguishing media which must not be used for safety reasons:

Not applicable

5.2 Special hazards arising from the substance or mixture

Exposure to high temperatures may cause decomposition and evaporation of the water component. This may 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

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 areas that remains using a detergent / soap solution or another biodegradable cleaner and place 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 for the control of wood decay fungi and wood destroying insects.

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 laundry before re-use.

Personal protection equipment:

Wear suitable coveralls and boots

Respiratory protection:

If spraying use local exhaust ventilation or respiratory protection. Combi filter A/P2

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 or long-sleeved shirt (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 – Slightly 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.....	>100 °C	
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	1.05-1.10 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****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****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

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

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

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

From the data available, this product is not classified as a specific target organ toxicant after a repeated exposure.

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

Key to risk phrases used in section 3.

H360 – may damage fertility or the unborn child

H302 – harmful if swallowed

H312 – harmful in contact with skin

H314 – causes severe skin burns and eye damage

H400 – very toxic to aquatic life

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:

Revised from first issue. All sections show changes

COMPILED BY: P Parton

DATE: January 2016

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.