

Conforms to 91/155/EEC as amended by 2001/58/EC

**SECTION 1 IDENTITY OF SUBSTANCE/PREPARATION & COMPANY**

**COMPANY/UNDERTAKING:** Advanced Chemical Specialties Limited  
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**PRODUCT NAME:** BORACOL 5RH**HSE No:** 8984

**DESCRIPTION:** A READY TO USE BIOCIDES FOR APPLICATION TO TIMBER AND MASONRY TO PROTECT AGAINST MOULDS, FUNGI, ALGAE AND WOOD DESTROYING INSECTS. FOR BRUSH, SPRAY OR DIP APPLICATION

**SECTION 2 COMPOSITION/INFORMATION ON COMPONENTS**

Substances in the preparation that require classification under The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIPS 4), or for which workplace exposure limits have been set.

	R-Symbol	R-Phrase	CAS No	% in preparation
Disodium Octaborate Tetrahydrate (DOT)	T (repm)	60/61	12280-03-04	3-4.71%
1,2 Ethandiol	Xn	22	107-21-1	5-10%
Benzyl-C8-18-alkyldimethyl Chlorides (Quaternary ammonium compounds)	C, N	21/22, 34, 50	61789-71-7	1-3%
All in aqueous medium				83 – 91%

**SECTION 3 HAZARD IDENTIFICATION**

Classification of the preparation in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2003 (CHIPS 3) and The Control of Pesticides Regulations (as amended 1997)

Not Classified

**SECTION 4 FIRST AID MEASURES**

**SWALLOWING** Rinse mouth and administer 1- pint warm water (cold if not available). Do not induce vomiting - seek medical attention immediately. Never administer anything by mouth to an unconscious person. See also Section 11 (Toxicological Information).

**EYES** Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

**INHALATION** Remove patient to fresh air, keep warm and at rest. Seek medical attention immediately.

**SKIN** Remove contaminated clothing and wash affected areas with soap and water. Launder contaminated clothing before re-use. If irritation occurs, consult a doctor.

**SECTION 5 FIRE FIGHTING MEASURES EAC - N/A**

**EXTINGUISHING MEDIA** Product is non-combustible. Essentially an aqueous solution.

**PPE : FIRE** Neoprene/PVC or synthetic gloves, chemical resistant boots and clothing. Breathing apparatus in the event of smoke evolution.

**PRODUCTS OF COMBUSTION** Exposure to extreme heat may liberate water vapour with trace quantities of Hydrogen Chloride and Oxides of Nitrogen and Carbon.

**PPE : SPILLAGE** Neoprene/PVC or synthetic rubber gloves and eye/face protection and chemical resistant boots.

**OTHER INFORMATION (FIRE)**

NONE

<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE/SPILLAGE CONTROL MEASURES</b>
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Where possible, wearing suitable protective clothing and without taking personal risk, shut off or remove source of leak. Absorb spillage with sand/sawdust or vermiculite and place into suitable HDPE/plastic drum, seal and mark container with contents to await disposal. Wash down remaining or small spills with copious water.

If product has entered watercourses or ditches inform Police, Environment Agency or Fire Brigade.

<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
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Wear suitable gloves (Neoprene/PVC or Nitrile to EN 374), coveralls and eye/face protection. Store in original container, tightly closed, in a safe place, locked up out of reach of children. NEVER STORE THIS PRODUCT, OR ANY OTHER CHEMICAL IN A FOOD OR DRINK CONTAINER – EVEN IF CORRECTLY LABELLED. Store apart from food, drink and animal feedstuffs. Do not contaminate surfaces on which food is prepared, stored or eaten.

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS/PPE</b>
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Wear suitable gloves, (neoprene/PVC or synthetic rubber), coveralls and eye/face protection. If spraying, wear suitable respiratory protection. When using, do not eat, drink or smoke and wash hands and exposed skin before meals and after work.

Engineering controls of operator exposure may replace PPE if it provides equal or a higher degree of protection (i.e. local exhaust ventilation, non-atomizing spray, dip application etc).

Do not apply to surfaces where food is prepared, stored or eaten. Remove or cover all foodstuffs, food preparation equipment, food contact surfaces, cover water storage tanks and fish bowls before application. Keep unprotected persons and animals away from treated surfaces for 48 hours or until surfaces are dry or covered. Avoid excessive contamination of coveralls and launder regularly.

<b>SECTION 9</b>	<b>PHYSICAL/CHEMICAL PROPERTIES</b>
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<b>APPEARANCE:</b>	Clear/Amber liquid	<b>FLASH POINT:</b>	>100°C
<b>ODOUR:</b>	Slight	<b>AUTO IGNITION:</b>	Not Known
<b>pH:</b>	8	<b>OXIDISING PROPERTIES:</b>	None
<b>BOILING POINT:</b>	100 °C	<b>DENSITY:</b>	1.09 - 1.16g/cm <sup>-3</sup>
<b>MELTING POINT:</b>	N/A	<b>(SPECIFY SOLVENT):</b>	n-Octanol/Water
<b>EXPLOSIVE PROPERTIES:</b>	None		
<b>VAPOUR PRESSURE:</b>	N/A		
<b>SOLUBILITY IN WATER:</b>	Soluble		
<b>SOLUBILITY IN SOLVENT:</b>	Insoluble		
<b>PARTITION COEFFICIENT:</b>	N/A		

<b>OTHER INFORMATION</b>
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None

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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Stable and non-reactive under normal conditions of handling and storage. Protect from frost

<b>INCOMPATIBLE SUBSTANCES</b>
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Strong Oxidizing Agents

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**LD<sub>50</sub> & LC<sub>50</sub> values for components listed in section 2.**

Component	Test	Result	Route	Target Species
Disodium Octaborate Tetrahydrate	LD <sub>50</sub>	2550mg/kg	Oral	Rat
	LD <sub>50</sub>	>2000 mg/kg	Dermal	Rabbit
Monoethylene Glycol (1,2 Etandiol)	LD <sub>50</sub>	200-2000mg/kg	Oral	Rat
	LD <sub>50</sub>	>2000 mg/kg	Dermal	Rabbit
Benzyl-C8-18-alkyldimethyl chlorides	LD <sub>50</sub>	750 mg/kg	Oral	Rat
	LD <sub>50</sub>	1560 mg/kg	Dermal	Rat

## EFFECTS OF ACUTE (OVER) EXPOSURE

**SKIN:** Possible reddening at the site of contact possible accompanied by itching/stinging.

**EYES:** Watering, soreness and severe irritation.

**INHALATION:** Due to the low volatility of the product there should be no hazard associated with inhalation under normal conditions of use. Excessive inhalation of spray mist may cause irritation of nasal passages and mucous membranes, cough, confusion or dizziness.

**INGESTION:** \* Abdominal pains, nausea, vomiting, possible reddening of the mouth and gastric tract.

\* NB. Medical personnel should be aware that this product contains a small quantity of 1,2 Ethandiol which can be dangerous in high doses. Medical Personnel should contact the nearest Poisons Unit for further advice on the use of oral ethanol to block the toxic aldehyde.

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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**Ecotoxicity Data**

Component	Test	Result	Period	Target Species
Benzyl-C8-18-alkyldimethyl chlorides	EC50	0.03mg/l	48-hours	Daphnia magna
	EC50	0.06mg/l	96-hours	Algae
	LC50	1.7mg/l	96-hours	Trout
	EC20	10.0mg/l	0.5-hours	Activated Sludge
Disodium Octaborate Tetrahydrate	LC50	74.0mg/l	96-hours	Dab
	LC50	88.0mg/l	32 days	Fish (Trout)
	LC50	530.0mg/l	48-hours	Daphnia
Monoethylene Glycol	EC50	100mg/l	24-hours	Daphnia

Do not allow product, waste or empty container to contaminate ponds, waterways, ditches, drains or water storage tanks. Harmful to aquatic life. Possibly phytotoxic – avoid contact with plantlife

Benzyl-C8-18-alkyldimethyl, chlorides (Quaternary Ammonium compound) is fully biodegradeable (OECD Method 301 D shows 60% degradation after 28 days - Rhodia)  
No potential to bioaccumulate.

Active components are readily removed by bioelimination at sewerage treatment plants.

<b>SECTION 13</b>	<b>WASTE DISPOSAL</b>
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Dispose of Waste in accordance with the Environmental Protection Act 1990 at a site approved and licensed by the Local Authority, operated by a competent approved and licensed Waste Disposal Contractor.

Cleaned and empty containers may be sent for re-cycling (HDPE) (remove the label). Intermediate bulk containers should be sent to the manufacturer for re-use (do not remove label unless completely decontaminated).

Duty of Care Waste Transfer Form should specify: Pesticide Product HSE No: 8984 .

4.

PRODUCT: BORACOL 5Rh

**SECTION 14**

**TRANSPORT PRECAUTIONS**

<b>PACKAGING GROUP</b>	N/A
<b>HAZARD CLASS</b>	N/A
<b>UN No.</b>	N/A
<b>TREM CARD No.</b>	N/A
<b>OTHER INFORMATION</b>	In mixed loads stow apart from food, drink and animal foodstuffs. Not restricted under ADR current UK or international legislation

**SECTION 15**

**REGULATORY INFORMATION**

This product has been assessed and classified according to The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIPS 4) and The Control of Pesticides Regulations (as amended) 1997 (and Northern Ireland), and ascribed the following risk phrases.

**R-Phrase(s):** None Ascribed

**S-Phrases:** Amateur:

Wear suitable protective clothing and suitable gloves. Do not breathe spray. Otherwise wear 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). DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOR CONTACT SURFACES. This material and its container must be disposed of in a safe way. EXCLUDE ALL UNPROTECTED PERSONS AND ANIMALS DURING TREATMENT AND FOR AT LEAST 1 HOUR AFTER TREATMENT IS COMPLETED. COVER ALL WATER STORAGE TANKS before application. DO NOT USE NEAR DRAINS, PREVENT ANY SURFACE RUN-OFF FROM ENTERING DRAINS. REMOVE OR COVER ALL FISH TANKS AND BOWLS before application. ALL BATS ARE PROTECTED UNDER THE WILDLIFE AND COUNTRYSIDE ACT 1981. BEFORE TREATING ANY STRUCTURE USED BY BATS, CONSULT NATURAL ENGLAND, SCOTTISH NATURAL HERITAGE OR THE COUNTRYSIDE COUNCIL FOR WALES.

WASH ANY CONTAMINATION from skin or eyes immediately

WASH HANDS AND EXPOSED SKIN before meals and after use.

Keep only in original container

Keep container tightly closed

Keep in a safe place

Keep out of reach of children

The Control of Substances Hazardous to Health Regulations 2002 may apply to the use of this product at work.

**SECTION 16**

**OTHER INFORMATION**

Key to risk phrases used in section 2.

**R21- Harmful in contact with skin**

**R22- Harmful by inhalation**

**R34- Causes Burns**

**R50- Very toxic to aquatic organisms**

This product is approved for Industrial, professional and amateur use, as a surface biocide and timber preservative as directed on the label.

HSE No: 8984

**5.**  
**PRODUCT: BORACOL 5Rh**

**Further reading (HSE Publications)**

**L9-The Safe Use of Pesticides for Non-Agricultural Purposes**  
**GS46 – In-Situ Timber Treatments Using Timber Preservatives**  
**L25- Personal Protective Equipment at Work**  
**EH/40- Occupational Exposure limits (revised annually).**  
**The Health and Safety at Work Act 1974**  
**HSG206 – Cost and 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**

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

e-mail: [hsebooks@prolog.uk.com](mailto:hsebooks@prolog.uk.com) or [www.hsebooks.co.uk](http://www.hsebooks.co.uk)

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](http://www.hse.gov.uk) and following the links to the e-Bulletins.

**THE FOLLOWING SECTIONS SHOW CHANGED OR AMMENDED INFORMATION:**

N/A

**INFORMATION ON THIS PRODUCT IS HELD ON THE NPIS TOXBASE DATABASE**

COMPILED BY: P PARTON

DATE: REVIEWED OCTOBER 2012

**NOTICE TO CUSTOMER:**

ENSURE ALL POTENTIAL USERS OF THIS PRODUCT ARE AWARE OF THIS SDS PRIOR TO USING THE PRODUCT.  
KEEP SDS IN A SAFE PLACE READILY LOCATABLE IN CASE OF FUTURE REQUIREMENT.  
READ THIS SDS IN CONJUNCTION WITH THE 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.

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