SAFETY DATA SHEET

SDS No. 041/GHS/18

Conforms to 2015/830/EC

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: ACS ECOBOR 20 WOOD PRESERVATIVE AND SURFACE BIOCIDE GEL

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of substance / preparation:
WOOD PRESERVATIVE FOR PROFESSIONAL USE ONLY AGAINST WOOD ROTTING FUNGI AND WOOD DESTROYING INSECTS
SURFACE BIOCIDE FOR USE AGAINST DRY ROT, MOULD FUNGI AND ALGAE.

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: DANGER
Special identification instructions:
H360 – may damage fertility or the unborn child
H302 – harmful if swallowed
H411 – toxic to aquatic life with long lasting effects
H319 – 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 WOOD PRESERVATIVE AND SURFACE BIOCIDE 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.
Avoid excessive contamination of coveralls.
WASH HANDS AND EXPOSED SKIN before meals and after use.
COVER ALL WATER STORAGE TANKS before application.
DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES.
This material and its container must be disposed of in a safe way. KEEP IN A SAFE PLACE. Keep out of reach of children.
ATTENTION: AVOID EXPOSURE – obtain special instructions before use
In case of accident or you feel unwell seek medical advice immediately (show the label where possible).
This material and its container must be disposed of in a safe way.
AFTER CONTACT WITH SKIN, WASH IMMEDIATELY with plenty of water and seek medical advice immediately.
To avoid risks to man and the environment, comply with the instructions for use on the label.
Obtain special instructions before use - Do not handle until all safety precautions have been read and understood –In case of inadequate ventilation wear respiratory protection – if exposed or concerned get medical advice – Store locked up – Dispose of contents/container at a hazardous waste disposal site in accordance with local/regional/national regulations.
Wash with soap and water thoroughly after handling.
Wear suitable gloves/protective clothing/eye protection/face protection.
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
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and safe to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Avoid release to the environment. Dispose of contents in accordance with local/regional/national regulations.
UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS AND UNTIL SURFACES ARE DRY.

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.

WOOD PRESERVATIVE FOR PROFESSIONAL USE AGAINST WOOD ROTTING FUNGI AND WOOD DESTROYING INSECTS. SURFACE BIOCIDE FOR PROFESSIONAL USE AGAINST DRY ROT, MOULD FUNGI AND ALGAE ON INTERNAL SURFACES SUCH AS MASONRY AND TILES

APPLY BY BRUSH, ROLLER AND INJECTION.
BY BRUSH AND ROLLER: APPLY 1 LITRE OF PRODUCT PER 2 – 2.5m² OF TIMBER SURFACE.
BY INJECTION: INJECT INTO PRE-DRILLED HOLES, APPLY AS NECESSARY UNTIL REFUSAL.
.
Contains: DISODIUM OCTABORATE TETRAHYDRATE 19.6% w/w
ALKYL (C12-C16) DIMETHYLBENZYL AMMONIUM CHLORIDE 5.0% (2.5% a.i.) w/w

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

HSE No 10584

USE ONLY AS DESCRIBED ON THE LABEL

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	19-20% w/w	Repr 1A H360FD
Alkyl (C12-C16) dimethylbenzyl Ammonium chloride	CAS No 63449-41-2	2-2.5%w/w	H302 H312 H314 H400

3.2.1 Chemical characterization (preparation)
Wood preservative and 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:
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

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.
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: 40℃

7.3 Specific end use(s)
Wood preservative for the control of wood decay fungi.
Surface biocide for the control of algae, fungi and mould fungi in masonry and wood.

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:
No specific requirement for respiratory protection as the product is not considered an inhalation hazard under normal conditions of use.
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.....: Gel
Colour .....: 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	1.20-1.25 g/cm³	
Water solubility / miscibility	partially 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 LD_{50} 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 know 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.

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
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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)
EC_{50} 530ml/l – 24 hours (Daphnia) (boron)
EC_{50} 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 vPvB.
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 road
Transport by sea IMDG-Code:
Not classified as hazardous for transportation by road
Air transport ICAO-TI/IATA-DGR:
Not classified as hazardous for transportation by road
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 2.

H360 – may damage fertility or the unborn child
H302 – harmful if swallowed
H411 – toxic to aquatic life with long lasting effects
H319 – causes serious eye damage
H315 – causes skin irritation

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

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

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