


MATERIAL SAFETY DATA SHEET according to EU Directive 93/112/EC		
BORACOL 40 PASTE		
Version: 3	Print date: 3.1.11	

1. Identification of Substance/Preparation and Company

Product Name	Boracol 40 paste
Company	Biokil Crown Ltd 7 Stadium Ind Park, Long Eaton Nottingham, NG10 2DD
Telephone	0115 946 0060
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Emergency Telephone	07967 10 71 95

2. Composition / Information on ingredients

Disodium octaborate tetrahydrate	40% w/w	CAS No: 12280-03-4	T (Reproduction)	60/61
Glycol medium & Other Inert Materials	60% w/w	CAS No: 107-21-1	None	None

3. Hazards identification

Classification of the preparation in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIPS 4)
 Toxic for reproduction (Cat 2)
 May impair fertility
 May cause harm to the unborn child


4. First aid measures

SWALLOWING	Do not induce vomiting. Administer $\frac{1}{2}$ to 1 pint warm water. Seek medical attention immediately. See also Toxicological Information (Section 11). Never administer anything by mouth to an unconscious person.
EYES	Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
INHALATION	Under normal conditions of use this product does not constitute an inhalation hazard.
SKIN	Remove contaminated clothing and wash affected areas with soap and water. Launder contaminated clothing before re-use. If irritation persists, consult a doctor.

5. Fire fighting measures

EXTINGUISHING MEDIA	Foam, dry chemical, water spray or fog. Do not use jet.
PPE : FIRE	Neoprene/PVC or synthetic gloves, chemical resistant boots and eye/face protection. Breathing apparatus in the event of smoke inhalation.
PRODUCTS OF COMBUSTION	Oxides of Carbon (CO and CO ₂). Acrid black smoke.
PPE : SPILLAGE	Neoprene/PVC or synthetic rubber gloves and eye/face protection and chemical resistant boots.
OTHER INFORMATION (FIRE)	Heating of containers to above flash point approximately 118°C may cause ignition of product. Containers exposed to fire should be kept cool by spraying with water.

6. Accidental release measures

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Where possible 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. If product has entered watercourses or ditches inform Police or Fire Brigade.

7. Handling and storage

Store in safe, cool, dry conditions, away from food, drink and animal foodstuffs. Wear suitable gloves, overalls and eye/face protection. Keep out of reach of children.
Store only in original container, tightly closed.
When using, do not eat, drink or smoke.

8. Exposure controls / personal protection

Wear suitable gloves, (neoprene/PVC or synthetic rubber). Eye/face protection to BS2092 for chemical resistance and coveralls.
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.

9. Physical and chemical properties

APPEARANCE:	Clear/amber gel	FLASH POINT:	>118°C (Hays)
ODOUR:	Very low/none	AUTO IGNITION:	413 °C
pH:	approx 8 @ 23°C	OXIDISING PROPERTIES:	None Known
BOILING POINT:	>197 °C	DENSITY:	1.4-1.45gcm ⁻³
MELTING POINT:	N/A	(SPECIFY SOLVENT):	n-Octanol/Water
EXPLOSIVE PROPERTIES:	None Known		
VAPOUR PRESSURE:	Not Known		
SOLUBILITY IN WATER:	Soluble		
SOLUBILITY IN SOLVENT:	Not Known		
PARTITION COEFFICIENT:	Not Known		

10. Stability and reactivity

Stable and non reactive if stored and handled correctly.
INCOMPATIBLE SUBSTANCES
Oxidising agents, oleum, sulphuric acid and chlorosulphonic acid.

11. Toxicological information

LD ₅₀	8,111mg/kg Rat (Scantox)
TLV 8 Hour	TWA (1,2 Ethandiol)
Vapour	60mg/m ³ (EH 40/94)

EFFECTS OF ACUTE (OVER) EXPOSURE

SKIN: Possible reddening at the site of contact.

EYES: Reddening, watering, stinging sensation.

INHALATION: Under normal circumstances this product does not constitute an inhalation hazard. Elevated temperatures may generate vapours which could lead to dizziness, headache and possible confusion.

INGESTION: Nausea, vomiting, abdominal pain preceded initially by symptoms similar to intoxication which may appear to subside before secondary symptoms surface. It is essential that following ingestion of this product the patient received immediate medical attention. All cases should be monitored for Ethylene Glycol poisoning (see also Section 16).

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12. Ecological information

Aquatic Toxicity

Fish	LC ₅₀	96 Hour	2.1ml/L	Rainbow Trout (Scantox)	(OECD No. 203)
Algae	EC ₅₀	4 Hour	1.6ml/L	Algae (Scantox)	(Danish DS 293)
	EC ₅₀	0.5 Hour	24ml/L	Activated Sludge (Scantox)	(OECD No. 209)

Dangerous to the aquatic environment. May be phytotoxic in quantity.

Biodegradation of the Glycol portion is high (BOD 20 89-100% Thod-Haus).

Do not allow waste, product or packaging to contaminate ponds, waterways or ditches.

Do not use in areas frequented by bats. Before commencing work, consult the relevant Environmental Authority - see product label.

13. Disposal considerations

Dispose of Waste in accordance with the Environmental Protection Act 1990. Preferably by high temperature incineration 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 disposed of as inert waste (remove the label).

Duty of Care Waste Transfer Form should specify: Pesticide Product, non flammable, irritating to eyes and skin.

14. Transport information

PACKAGING GROUP N/A

HAZARD CLASS N/A

UN No. N/A

TREM CARD No. N/A

OTHER INFORMATION Not classified as hazardous under CHIP and ADR. In mixed loads stow apart from food, drink and animal foodstuffs. Keep apart from oxidising agents and acids.

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) (inc Northern Ireland), and ascribed the following risk phrases.

R-Phrase(s): Toxic for reproduction

R61 – May impair fertility

R62 – May cause harm to the unborn child



S-Phrase(s): FOR USE ONLY AS A WOOD PRESERVATIVE

FOR USE BY PROFESSIONAL OPERATORS

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

Engineering controls of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment.

Wear suitable protective clothing and gloves.

AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDER REGULARLY.

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


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

COVER WATER STORAGE TANKS before application.

This material and its container must be disposed of in a safe way.

Do not contaminate ground, waterbodies or watercourses with chemicals or used container.

ENSURE THERE IS A PHYSICAL BARRIER TO PREVENT CONTACT BY UNPROTECTED PERSONS OR ANIMALS UNTIL TREATED

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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. This product is approved under the Control of Pesticides Regulations 1986 for use by Professional Operators as directed. HSE No:7267 The Control of Substances Hazardous To Health Regulations 1988 will relate to this product when used at work.

16. Other Information

Note to Medical Personnel:-
In case of poisoning with Ethylene Glycol, prompt administration of 50 gms Oral Ethanol is essential to block the formation of its Toxic Aldehyde. Further Ethanol infusions may be required. Contact your nearest Poisons Unit for further advice.
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.
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 LOSS, DAMAGE OR INJURY AS CONDITIONS OF USE ARE OUTSIDE OUR CONTROL. THIS IS NOT A TECHNICAL SPECIFICATION.

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