

Safety Data Sheet according to WHMIS 2015



1: IDENTIFICATION

Product Name: BORACOL 20-2BD

Preservative and Remedial Wood Preservative

PCP Registration: 25664**Product Form:** Glycol borate solution**Recommended Use and Restrictions:** Wood preservative for structures and other surfaces**Product supplier:** Sasco Products Limited, 10 Ilsley Avenue, Unit 3, Dartmouth, NS, Canada**Emergency Phone:** 902-489-6366 (emergency only, for regular information call 902-468-2126)

2: HAZARD IDENTIFICATION

Classification:

- Skin Irritation Category 2
- Eye Irritation Category 2
- Reproductive Toxicity Category 1B

Pictogram:**Signal word:** Danger**Hazard statement:**

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H360FD - May damage fertility. May damage the unborn child

Precautionary statements:

- P101 - If medical advice is needed, have product container or label at hand
- P102 - Keep out of reach of children
- P201 - Obtain special instructions before use
- P280 - Wear protective gloves/eye protection/face protection
- P332+P313 - If skin irritation occurs, get medical advice/attention
- P337+P313 - If eye irritation persists, get medical advice/attention
- P405 - Store locked up
- P501 - Dispose of contents/container in accordance with local regulations.

Other hazards: The product contains organic solvents. Repeated exposure to organic solvents may cause damage to the central nervous system and internal organs, e.g. liver and kidney.

3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	%	CAS Number
1,2-Propanediol (Propylene glycol)	60 - 80	57-55-6
Disodium octaborate tetrahydrate	19.6	12280-03-4
Didecyldimethylammonium chloride	1 - 2	7173-51-5

4: FIRST AID MEASURES

Inhalation: Seek fresh air. Keep victim under observation. Get medical attention.**Skin contact:** Immediately remove contaminated clothing. Wash the skin thoroughly with water and continue washing for a long time. Get medical advice/attention.**Eye contact:** Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.**Ingestion:** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Get medical advice/attention.**Additional information:** When obtaining medical advice, show the safety data sheet or label.**Most important symptoms and effects:****Reproductive toxicity:** This product contains substances which can do damage to reproductive capacity, e.g. damage to germ cells or hormonal regulation. The effects can be sterility, reduced fertility, menstruation disorders, etc. Teratogenic substances contained in this product can do longterm damage to human offspring. The effects on the child can be death, deformity, delayed development, and functional disorders.**Irritation effects:** This product contains substances which cause irritation to skin and eyes, and cause the area of contact to be more prone to absorb damaging substances such as allergens.

5: FIRE-FIGHTING MEASURES

Extinguishing media: Extinguish with powder, foam, carbon dioxide, or water fog. Do not use water stream, as it may spread the fire.**Specific hazards arising from the hazardous product:** The product is not directly flammable. Avoid inhalation of vapor and fumes - seek fresh air. Hazardous fumes are formed in fire conditions. Exposure to decomposition products may cause a health hazard.**Special protective equipment and precautions for fire-fighters:** Send contaminated extinguishing water for destruction. If there is a risk of exposure to vapor and flue gases, a self-contained breathing apparatus must be worn.

6: ACCIDENTAL RELEASE MEASURES

Put on appropriate PPE (see Section 8). Stop leak and remove container from spill area. Prevent run-off from entering waterways, drains and sewers. Take up spill with sand or other absorbent material for disposal at authorized sites.

7: HANDLING & STORAGE

Precautions of safe handling: See section 8 for information about precautions for use and personal protective equipment. Use the product under well-ventilated conditions, preferably outdoors. Running water and eye wash equipment should be available.**Conditions of storage:** The product should be stored safely, out of reach of children and away from food, drugs, and animal feeding stuffs. Keep tightly sealed in original containers, and store in a dry, cool, and well-ventilated area.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters:**DNEL - 1,2-Propanediol:**Inhalation long term systemic effects - Workers: 168 mg/m³Inhalation long term local effects - Workers: 10 mg/m³Inhalation long term systemic effects - General population: 50 mg/m³Inhalation long term local effects - General population: 10 mg/m³**DNEL - Boric acid:**

Dermal long term systemic effects - Workers: 392 mg/kg bw/day

Inhalation long term systemic effects - Workers: 8.3 mg/m³

Oral Short term systemic effects - General population: 0.98 mg/kg bw/day

Oral long term systemic effects - General population: 0.98 mg/kg bw/day

Dermal long term systemic effects - General population: 196 mg/kg bw/day

Inhalation long term systemic effects - General population: 4.15 mg/m³**DNEL - Disodium tetraborate, anhydrous:**

Dermal long term systemic effects - Workers: 316.4 mg/kg bw/day

Inhalation long term systemic effects - Workers: 6.7 mg/m³Inhalation long term local effects - Workers: 11.7 mg/m³

Oral short term systemic effects - General population: 0.79 mg/kg bw/day

Oral long term systemic effects - General population: 0.79 mg/kg bw/day

Dermal long term systemic effects - General population: 159.5 mg/kg bw/day
Inhalation long term systemic effects - General population: 3.4 mg/m³
Inhalation long term local effects - General population: 11.7 mg/m³

DNEL - Didecyldimethylammonium chloride:

Dermal long term systemic effects - Workers: 8.6 mg/kg bw/day
Inhalation long term systemic effects - Workers: 18.2 mg/m³

DNEL - 2-Propanol:

Dermal long term systemic effects - Workers: 888 mg/kg bw/day
Inhalation long term systemic effects - Workers: 500 mg/m³
Oral long term systemic effects - General population: 26 mg/kg bw/day
Dermal long term systemic effects - General population: 319 mg/kg bw/day
Inhalation long term systemic effects - General population: 89 mg/m³

PNEC	Water Fresh	Water Marine	Water Intermittent Releases	Soil
1,2-Propanediol	260 mg/L	26 mg/L	183 mg/L	50 mg/kg soil dw
Boric acid	2.9 mg/L	2.9 mg/L	13.7 mg/L	5.7 mg/kg soil dw
Disodium tetraborate, anhydrous	2.9 mg/L	2.9 mg/L	13.7 mg/L	5.7 mg/kg soil dw
Didecyldimethylammonium chloride	2 µg/L 0.2	µg/L 0.29	µg/L	1.4 mg/kg soil dw
2-Propanol	140.9 mg/L	140.9 mg/L	140.9 mg/L	28 mg/kg soil dw

Appropriate engineering controls: Ensure good ventilation of the work area.

Individual protection measures:

Breathing equipment: In case of insufficient ventilation, wear respiratory protective equipment.

Hand protection: Wear protective gloves made of nitrile rubber, neoprene rubber, or butyl rubber.

Eye protection: Wear safety goggles if there is a risk of eye splash.

Body and skin protection: Special work clothing should be used.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear viscous liquid

Odor: Almost negligible

Melting/freezing point: No data available

Flash point: >107°C

Vapor pressure: No data available

Decomposition temperature: No data available

Partition coefficient: No data available

Auto-ignition temperature: >350°C

pH: Approximately 7.3

Odor threshold: No data available

Boiling range: 101°C

Evaporation rate: No data available

Vapor density: No data available

Solubility: Miscible

Viscosity: No data available

Specific gravity: 1.15

10: STABILITY & REACTIVITY

Reactivity: Non-reactive under normal conditions of use, storage, and transport

Chemical stability: Stable when used in accordance with the supplier's directions

Possibility of hazardous reactions: None known

Conditions to avoid: None known

Incompatible materials: Avoid contact with strong oxidizing agents

Hazardous decomposition products: Product decomposes in fire conditions or heated to high temperatures, in which cases toxic gases such as NO_x and CO_x may be released.

11: TOXICOLOGICAL INFORMATION

Substance	LD50 Oral	LC50 Inhalation	LD50 Dermal
1,2-Propanediol	22000 mg/kg bw	>317042 mg/m ³ air	>2000 mg/kg bw
Boric acid	>2600 mg/kg bw	>2.03 mg/L air - 5 h	>2000 mg/kg bw
Disodium tetraborate, anhydrous	3450 mg/kg bw	>2.03 mg/L air - 5 h	>2000 mg/kg bw
Didecyldimethylammonium chloride	329 mg/kg bw	–	>1000 mg/kg bw

Symptoms

- The product releases organic solvent vapors which, if inhaled, may cause lethargy and dizziness. At high concentrations, the vapors may cause headache and intoxication.
- Ingestion may cause discomfort.
- Skin contact may cause reddening.
- Eye contact causes a burning sensation and tearing.
- Prolonged or repeated exposure by skin contact or inhalation of vapors may cause damage to the central nervous system.
- Prolonged exposure may cause damage to fertility or the unborn child.

12: ECOLOGICAL INFORMATION

Substance	Fish - 96 h	Daphnia - 48 h	Algae - 72 h
1,2-Propanediol	LC50: 40613 mg/L	LC50: 18340 mg/L	EC50: 24200 mg/L
Boric acid	LC50: 600 mg/L	LC50: 142 mg/L	–
Disodium tetraborate, anhydrous	LC50: 74 mg/L	–	–
Didecyldimethylammonium chloride	LC50: 0.49 mg/L	EC50: 0.029 mg/L	EC50: 0.156 mg/L

13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local regulations

14: TRANSPORTATION INFORMATION

Not classified as a dangerous good under transportation regulations

15: REGULATORY INFORMATION

This product is regulated under the Pest Control Products Act in Canada.

16: OTHER INFORMATION

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