

# Safety Data Sheet according to WHMIS 2015



## 1: IDENTIFICATION

**Product Name: BORACOL 10-2BD**

Preservative and Remedial Wood Preservative

**PCP Registration:** 25665**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

**Pictogram:****Signal word:** Warning**Hazard statement:**

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation

**Precautionary statements:**

- P101 - If medical advice is needed, have product container or label at hand
- P102 - Keep out of reach of children
- 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
- 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	10 - 40	57-55-6
Disodium octaborate tetrahydrate	9.8	12280-03-4
Didecylidimethylammonium chloride	1 - 2	7173-51-5

## 4: FIRST AID MEASURES

**Inhalation:** Seek fresh air. Keep victim under observation. Seek medical advice in case of persistent discomfort.**Skin contact:** Immediately remove contaminated clothing. Wash the skin thoroughly with water and continue washing for a long time. If skin irritation occurs: 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:** See section 11.

## 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/m<sup>3</sup>Inhalation long term local effects - Workers: 10 mg/m<sup>3</sup>Inhalation long term systemic effects - General population: 50 mg/m<sup>3</sup>Inhalation long term local effects - General population: 10 mg/m<sup>3</sup>**DNEL - Boric acid:**

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

Inhalation long term systemic effects - Workers: 8.3 mg/m<sup>3</sup>

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/m<sup>3</sup>**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/m<sup>3</sup>Inhalation long term local effects - Workers: 11.7 mg/m<sup>3</sup>

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/m<sup>3</sup>Inhalation long term local effects - General population: 11.7 mg/m<sup>3</sup>**DNEL - Didecylidimethylammonium chloride:**

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

Inhalation long term systemic effects - Workers: 18.2 mg/m<sup>3</sup>**DNEL - 2-Propanol:**

Dermal long term systemic effects - Workers: 888 mg/kg bw/day

Inhalation long term systemic effects - Workers: 500 mg/m<sup>3</sup>

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/m<sup>3</sup>

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
Didecylidimethylammonium 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:** >150°C

**Vapor pressure:** No data available

**Decomposition temperature:** No data available

**Partition coefficient:** No data available

**Auto-ignition temperature:** >350°C

**pH:** Approximately 7

**Odor threshold:** No data available

**Boiling range:** 101°C

**Evaporation rate:** No data available

**Vapor density:** No data available

**Solubility:** Miscible

**Viscosity:** 110 ± 1

**Specific gravity:** 1.04

**VOC material:** 138 g/L

**VOC regulatory:** 688 g/L

**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 NOx and COx may be released.

**11: TOXICOLOGICAL INFORMATION**

Substance	LD50 Oral	LC50 Inhalation	LD50 Dermal
1,2-Propanediol	22000 mg/kg bw	>317042 mg/m³ 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
Didecylidimethylammonium chloride	329 mg/kg bw	–	>1000 mg/kg bw
2-Propanol	5.84 g/kg bw	>10000 ppm - 6 h	16.4 mL/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.
- The product contains boric acid and disodium tetraborate, anhydrous, which is a suspected reproductive hazard.

**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	–	–
Didecylidimethylammonium chloride	LC50: 0.49 mg/L	EC50: 0.029 mg/L	EC50: 0.156 mg/L
2-Propanol	LC50: 9640 mg/L	LC50 24h: >10000 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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