# SAFETY DATA SHEET

## SECTION 1 MATERIAL NAME / IDENTIFIER

**Spa Water Conditioner** **WHMIS:** D2A

**Manufacturer's Name:** **CAPO INDUSTRIES LTD**
**Street Address:** **1200 CORPORATE DRIVE**
**City:** **BURLINGTON, ONTARIO**
**Postal Code:** **L7L 5R6**

**Emergency Telephone:** **Canutec (613) 996-6666 (Collect)**

**Chemical Name:** Not applicable
**Chemical Family:** Borates
**Chemical Formula:** Proprietary Blend
**Trade Name & Synonyms:** None
**Molecular Weight:** Not applicable
**Material Use**: Spa water conditioner & buffer

## SECTION 2 HAZARDS IDENTIFICATION

**GHS classification:** H302 Acute toxicity, Oral, Category 4
H335 Specific target organ toxicity, Single Exposure, Respiratory tract irritation, Category 3
H401 Hazardous to the aquatic environment, Acute hazard, Category 2

**Symbol(s)**

**Signal Word** Warning
**Hazard statements** Harmful if swallowed. May cause respiratory tract irritation. Toxic to aquatic life.
**Precautionary statements** Do not ingest. If ingested, do not induce vomiting, drink 2 or 3 glasses of water and seek medical attention. Avoid breathing in dusts/vapours/fumes. If inhaled, remove person to fresh air and seek medical attention. Avoid release into the environment.

# SAFETY DATA SHEET

## SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredient | CAS# | % Concentration |
|---|---|---|
| Sodium Tetraborate Pentahydrate | 12179-04-3 | 10 – 30 |
| Boric Acid | 10043-35-3 | 60 – 100 |

## SECTION 4 FIRST AID MEASURES

**Inhalation:** Remove person to fresh air. Administer artificial respiration if person is having difficulty breathing and seek medical attention.

**Skin Contact:** Wash thoroughly with soap and water. Seek medical attention if redness or irritation develops.

**Eye Contact:** Flush eyes with copious amounts of water for 20 minutes. Seek medical attention if irritation develops.

**Ingestion:** Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing rinse mouth with water and give ½ to 1 glass of water to dilute material. Immediately contact local poison control centre. Vomiting should only be induced on the advice of a poison control centre or physician. If spontaneous vomiting occurs, have victim lean forward with head down to avoid inhaling in of vomitus. Rinse mouth and give more water. Immediately transport victim to an emergency facility.

**Note to physicians** For Borate ingestion or overexposure: Treat for Alkaline exposure or ingestion. Give vinegar in large amounts or water or diluted orange or lemon juice. Follow with demulcent. Do not use emetics or stomach tube. Assure adequate hydration. After ingestion or absorption into the blood stream of large amounts (15g or more), symptoms may appear after 24 to 72 hours. Borates are readily dissipated through the urine (20% in the first 24 hours). Observation only is required for adult ingestion of less than 6g of product. For ingestion in excess of 6g, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hem dialysis should be reserved for massive acute ingestion or patients with renal failure. Boron assay of urine or blood is only useful for documenting exposure and should not be used to evaluate severity poisoning or to guide treatment.

## SECTION 5 FIRE – FIGHTING MEASURES

**Hazardous Combustion Products:** Not applicable

**Unusual Fire or Explosion Hazards:** None known

**Sensitivity to Mechanical Impact**: None

**Rate of Burning:** Not applicable

**Explosive Power:** Not applicable

**Sensitivity to Static Discharge:** None

**Fire Extinguishing Media:** Use media suitable to extinguish source of fire.

**Instructions to the Fire Fighters:** See below

**Fire Fighting Protective Equipment:** Wear full protective clothing and a self-contained breathing apparatus.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Leak And Spill Procedure:** Sweep up material and place in clean, dry labelled container for disposal. Do not allow product to enter sewers or waterways. This material is toxic to aquatic life. The product can be toxic to plants.

## SECTION 7 HANDLING AND STORAGE

**HANDLING**

**Handling Practices:** Avoid prolonged skin contact. Avoid breathing in dust. Wear gloves and safety glasses when handling. Wash hands thoroughly after use.

**Ventilation Requirements:** Use in a well ventilated area.

**STORAGE**

**Ventilation Requirements:** Store in a cool, dry area.

**Storage Requirements:** Do not store sealed containers at temperatures above 40°C. Avoid moisture contamination.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS**

**Engineering Controls:** Local exhaust ventilation to keep airborne contaminants below exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

**Skin (Specify):** Latex, PVC or rubber gloves if prolonged skin contact is likely.

**Eye (Specify):** Safety glasses/goggles if eye contact is likely.

**Respiratory (Specify):** Wear dust mask if prolonged use in non-ventilated area is unavoidable.

**Other (Specify):** Wear a NIOSH/MSA approved dust mask for concentrations of nuisance dust up to 100 mg/m3. An air supplied respirator of concentrations higher or unknown. Eye wash and shower stations close to work area.

# SAFETY DATA SHEET

## SECTION 9 PHYSICAL DATA FOR MATERIAL

| | | | | |
|---|---|---|---|---|
| **Physical State:** | **Gas** | **Liquid** | **Solid** | **X** |
| **Odour & Appearance:** | Speckled blue powder, sweet odour | | | |
| **Odour Threshold (ppm):** | Not applicable | | | |
| **Flammability:** | | **Yes** | **No** | **X** |
| **If Yes, Under Which Conditions?:** | | | | |
| **Auto Ignition Temperature (Celsius):** | Not applicable | | | |
| **Upper Explosion Limit (% By Volume):** | Not applicable | | | |
| **Lower Explosion Limit (% By Volume):** | Not applicable | | | |
| **Decomposition Temp (°C)** | Not available | | | |
| **Specific Gravity:** | 0.849 | | | |
| **Viscosity:** | Not applicable | | | |
| **Vapour Pressure (mm):** | Not applicable | | | |
| **Vapour Density (Air-1):** | Not applicable | | | |
| **Flashpoint (°C)** | Not applicable | | | |
| **Evaporation Rate** | Not applicable | | | |
| **Boiling Point (°C):** | Not applicable | | | |
| **Freezing Point (°C):** | 200°C | | | |
| **Solubility In Water (20°C):** | 3.6% by weight | | | |
| **% Volatile (By Weight)** | Not applicable | | | |
| **PH:** | 7.0 – 8.0 (1% solution) | | | |
| **Coefficient Of Water/Oil Distribution:** | Not applicable | | | |

## SECTION 10 STABILITY AND REACTIVITY

| | | | |
|---|---|---|---|
| **Chemical Stability:** | **Yes** | **X** | **No** |
| **If No, Under Which Conditions?:** | | | |
| **Incompatibility To Other Substances:** | **Yes** | **X** | **No** |
| **If So, Which Ones:** | Elemental zirconium, base metals, alkali metals, reducing agents, and metal hydrides. | | |
| **Conditions to Avoid:** | Reacts with strong reducing agents such as metal hydrides or alkali metals to generate flammable and explosive hydrogen gas. | | |
| **Hazardous Decomposition Products:** | None known | | |

# SAFETY DATA SHEET

## SECTION 11 TOXICOLOGICAL INFORMATION

**ACUTE HEALTH EFFECTS**

**Inhalation:** Dust may cause irritation to throat and nose and respiratory tract.

**Skin Contact:** Not expected to cause irritation under normal conditions. Skin contact may cause irritation due to abrasive action. May cause defatting, drying and cracking of the skin. May be readily absorbed through broken or damaged skin. Toxic effects may be delayed.

**Eye Contact:** Eye contact may cause irritation and possible damage due to abrasion.

**Ingestion:** Ingestion of large amounts may cause nausea, gastrointestinal upset and abdominal pain. May cause diarrhea, circulatory collapse, cyanosis, convulsions, coma, nausea, vomiting and death.

**CHRONIC HEALTH EFFECTS:** May lead to irritation and/or sensitivity of the skin.

**Other Health Effects:** Boric acid may cause cyanosis. Cyanosis is characterized by navy blue, almost black Lips, tongue and mucous membranes with skin colour being slate grey. Further Manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, Respiratory distress and death due to anoxia.

**LD 50 of Material (Specify Species and Routes):** Boric Acid**:** 2660 mg/kg, Oral (Rat), >2000 mg/kg, Dermal (Rabbit)
Sodium Tetraborate Pentahydrate 30%: 8866.7 mg/kg, Oral (Rat)

**LC 50 of Material (Specify Species and Routes):** Boric Acid: >2.0 mg/l, Inhalation (Rat)
Sodium Tetraborate Pentahydrate 30%: Not available

**Exposure (Limits):** Boric Acid ACGIH TLV, Inhalable fraction TWA: 2 mg/m3, 8 h, STEL: 6 mg/m3, 15 min. Sodium Tetraborate Pentahydrate ACGIH TLV, Inhalable fraction TWA: 2 mg/m3, STEL: 6 mg/m3, OSHA TWA: 10 mg/m3, Total Dust.

**Irritancy of Material** Skin, eye, nose and throat irritant.

**Sensitization of Material** None known

**Synergistic Materials** None known

**Carcinogenicity, Mutagenicity** None known

**Reproductive Effects** Boric acid and borates may cause reproductive effects based on laboratory animal studies. Animal studies show that ingestion of large amounts of borates over prolonged periods causes a decrease in sperm production and testicle size in male laboratory animals. No symptoms have been noted in humans.

**Teratogenicity:** Boric acid and borates may cause teratogenic/embryo toxic effects based on studies on laboratory animals. Animal studies show that ingestion of large amount of borates over prolonged periods cause developmental effects in fetuses of pregnant female animals.

## SECTION 12 ECOLOGICAL INFORMATION

**Ecotoxicity**

**BORIC ACID:** LC50 1100 mg/l, Fish (Oncorhynchus mykiss), 96 h

LC50 53 mg/l, Daphnia (Daphnia magna), 21 days

**SODIUM TETRABORATE PENTAHYDRATE:** Not available

**Environmental Fate**

**Biodegradability:** Boric acid and Sodium Tetraborate Pentahydrate decomposes in the environment to natural borate. In aqueous solutions Sodium Tetraborate Pentahydrate is converted substantially into dissociated boric acid.

**Bioaccumulative Potential:** Not available

**Mobility In Soil:** Sodium Tetraborate Pentahydrate is soluble in water and is leachable through normal soil.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Waste Disposal:** Dispose material in accordance with federal, provincial and local regulations.

**Safe Handling of Residues:** Flush residues with copious amounts of water.

**Disposal of Packaging:** Empty containers should be recycled or disposed through an approved waste management facility.

## SECTION 14 TRANSPORTATION INFORMATION

**CANADIAN TDG ACT SHIPPING DESCRIPTION:**

**Proper shipping name:** Not regulated

**Class:** Not applicable

**Packing group:** Not applicable

**UN:** Not applicable

**US DOT CLASSIFICATION (49CFR 172.101, 172.102)**

**Proper shipping name:** Not regulated

**Class:** Not applicable

**Packing group:** Not applicable

**UN:** Not applicable

# SAFETY DATA SHEET

## SECTION 15 REGULATORY INFORMATION

**CANADA** All components of this product are either on the DSL or exempt

**WHMIS**: D2A

**CPR Compliance:** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**USA** Not available

**INTERNATIONAL** Not available

## SECTION 16 OTHER INFORMATION

**Prepared By (Group, Department, Etc.):** **Quality Control** **Telephone:** **(905) 332-6626**

**Preparation Date:** **January 1, 1996**
**Date Revised:** **December 1, 2020**
**Additional Notes Or References:**

**While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.**