

**Section 1: Product & Company Information**

**Product Identifier:** Borax, 5 or 10 mol

**Other Means of Identification**

Product Number: No data available.

**Recommended Use and Restrictions on Use**

Recommended Use: Not available.

Restrictions on Use: Not known.

**Manufacturer / Importer / Supplier / Distributor Information**

**Company Name:** CORECHEM Inc.

**Address:** 4320 Greenway Drive  
Knoxville, TN 37918  
USA

**Information Telephone Number:** 1-865-524-4239

**Fax Number:** 1-865-524-3375

**Website:** www.corecheminc.com

**Contact Person:** Regulatory Manager

**E-mail:** regulatory@corecheminc.com

**Emergency Phone Number:** Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

**Section 2: Hazards Identification**

**GHS Hazard Classification(s)**

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

**Physical Hazard(s)**

Not classified.

**Health Hazard(s)**

(Corrosion)Damage/Irritation, Eye - 2A

Toxic to Reproduction - 1

**Environmental Hazard(s)**

Not classified.

**Label Elements**

**Signal Word**

**DANGER**

**Hazard Symbol(s)**



**Hazard Statement(s)**

H319: Causes serious eye Irritation.

H360: May damage fertility or the unborn child.

**Precautionary Statements**

**General**

Not applicable.

**Prevention**

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281: Use personal protective equipment as required.

#### Response

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313: IF exposed or concerned: Get medical advice/attention.  
P337 + P313: If eye irritation persists: Get medical advice/attention.

#### Storage

P405: Store locked up.

#### Disposal

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### Hazard(s) not otherwise classified (HNOC)

None known.

## Section 3: Composition/Information on Ingredients

#### Mixture

Chemical Identity <sup>2</sup>	Common Name/Synonym(s)	CAS # <sup>3</sup>	Weight %	Impurity or Stabilizing Additive
Borates, Tetra, Sodium Salts	Sodium Borate	1303-96-4	99 – 100%	No

- Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
- Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- “—” Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

## Section 4: First-Aid Measures

#### General Information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

#### Inhalation

Move to fresh air. Get medical attention if symptoms persist.

#### Skin Contact

Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.

#### Eye Contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

#### Ingestion

Rinse mouth. Call a poison control center or doctor/physician if you feel unwell.

#### Most important symptoms/effects, acute and delayed

##### Symptoms

Causes serious eye irritation.

#### Indication of immediate medical attention and special treatment needed

##### Hazards

No data available.

##### Treatment

Treat symptomatically. Symptoms may be delayed.

## Section 5: Fire-Fighting Measures

#### General Fire Hazards

No unusual fire or explosion hazards noted.

#### Suitable (and Unsuitable) Extinguishing Media

##### Suitable Extinguishing Media

Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable Extinguishing Media**

None known.

**Specific Hazards Arising from the Chemical**

None known.

**Special Protective Equipment and Precautions for Firefighters**

**Special Fire-Fighting Equipment Procedures**

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

**Special Protective Equipment for Fire-Fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

## Section 6: Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures**

Evacuate spill area. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of low area. Remove all possible sources of ignition in the surrounding area. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment. Ventilate contaminated area thoroughly shut off leaks if possible without personal risk.

**Methods and Materials for Containment and Clean-Up**

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

**Notification Procedures**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental Precautions**

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## Section 7: Handling and Storage

**Precautions for Safe Handling**

Use caution when handling/transferring. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible. Observe good industrial hygiene practices.

**Conditions for Safe Storage, including any Incompatibilities**

Keep container tightly closed. Store in a cool, dry, well-ventilated place.

## Section 8: Exposure Controls/Personal Protection

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Value	Source
Borates, Tetra, Sodium Salts – Decahydrate – Inhalable fraction.	STEL	6 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values
	TWA	2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values
Borates, Tetra, Sodium Salts – Decahydrate	TWA	10 mg/m <sup>3</sup>	US OSHA Table Z-1

**Biological Limit Values**

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment (PPE)**

**General Information**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Eye/Face Protection**

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

**Skin Protection**

**Hand Protection**

Wear appropriate chemical resistant gloves.

**Other**

Wear appropriate chemical resistant clothing.

**Respiratory Protection**

In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.

**Hygiene Measures**

Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Section 9: Physical and Chemical Properties**

**Appearance:**

Physical State: Solid  
Color: White

**Odor:**

Odorless

**Odor Threshold:**

No data available.

**pH:**

No data available.

**Melting Point/Freezing Point:**

75 °C

**Initial Boiling Point and Boiling Range:**

320 °C

**Flash Point:**

Not applicable.

**Evaporation Rate** (butyl acetate=1):

No data available.

**Flammability (solid, gas):**

No data available.

**Upper/Lower Limit on Flammability or Explosive Limits**

Flammability Limit – Upper: No data available.

Flammability Limit – Lower: No data available.

Explosive Limit – Upper: No data available.

Explosive Limit – Lower: No data available.

**Vapor Pressure:**

No data available.

**Vapor Density** (air = 1):

No data available.

**Relative Density** (water=1):

1.73 (20 °C)

**Solubility(ies):**

Solubility in water: 60 g/l

Solubility (other): No data available.

**Partition coefficient (n-octanol/water):**

No data available.

**Auto-Ignition Temperature:**

No data available.

**Decomposition Temperature:**

No data available.

**Viscosity:**

No data available.

**Other Information:**

Molecular Weight: 381.37 g/mol

Formula: No data available.

**Section 10: Stability and Reactivity**

**Reactivity**

No dangerous reaction known under conditions of normal use.

**Chemical Stability**

Material is stable under normal conditions.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

**Conditions to Avoid**

Contact with incompatible materials.

**Incompatible Materials**

Acids.

**Hazardous Decomposition Products**

By heating and fire, toxic vapors/gases may be formed.

**Section 11: Toxicological Information**

**Information on routes of exposure**

**Ingestion:** May be harmful if swallowed. May cause irritation of the gastrointestinal tract.

**Inhalation:** May cause irritation to the mucous membranes and upper respiratory tract.

**Skin Contact:** May cause irritation. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

**Eye Contact:** Causes serious eye irritation.

**Information on Toxicological Effects**

**Acute Toxicity (List all possible routes of exposure)**

**Oral**

Borates, Tetra, Sodium Salt – Decahydrate: LD 50 (Rat): 2,660 mg/kg

**Dermal**

No data available.

**Inhalation**

No data available.

**Repeated Dose Toxicity**

No data available.

**Skin Corrosion/Irritation**

May cause skin irritation.

**Serious Eye Damage/Eye Irritation**

Causes serious eye irritation.

**Respiratory/Skin Sensitization**

Not a skin sensitizer.

**Carcinogenicity**

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**US. National Toxicology Program (NTP) Report on Carcinogens**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Germ Cell Mutagenicity**

**In Vitro**

No mutagenic components identified.

**In Vivo**

No mutagenic components identified.

**Reproductive Toxicity**

May damage fertility or the unborn child.

**Specific Target Organ Toxicity – Single Exposure**

None known.

**Specific Target Organ Toxicity – Repeated Exposure**

None known.

**Aspiration Hazard**

Not classified.

**Other Effects**

None known.

**Section 12: Ecological Information**

**Ecotoxicity**

**Acute Hazards to the Aquatic Environment**

**Fish**

No data available.

**Aquatic Invertebrates**

No data available.

**Toxicity to Aquatic Plants**

No data available.

**Chronic Hazards to the Aquatic Environment**

**Fish**

No data available.

**Aquatic Invertebrates**

No data available.

**Toxicity to Aquatic Plants**

No data available.

**Persistence and Degradability**

**Biodegradation**

There are no data on the degradability of this product.

**BOD/COD Ratio**

No data available.

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)**

No data available on bioaccumulation.

**Partition Coefficient n-octanol / water (log Kow)**

No data available.

**Mobility in Soil**

The product is partly soluble in water. May spread in the aquatic environment.

**Other Adverse Effects**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Section 13: Disposal Considerations**

**Disposal Instructions**

Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging**

Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Section 14: Transportation Information**

**US Department of Transportation (DOT)**

This material is not regulated as a hazardous material for transport by the U.S. Department of Transportation in accordance with 49 CFR 172.101.

**Section 15: Regulatory Information**

**US Federal Regulations**

**Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)**

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)**

No chemical(s) in this material are subject to the reporting requirements of CERCLA.

**Clean Air Act (CAA), Section 112(r)**

No chemical(s) in this material are subject to the reporting requirements of CAA.

**Emergency Planning and Community Right-To-Know Act (EPCRA)**

**EPCRA 302 Extremely Hazardous Substance**

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

**EPCRA 304 Emergency Response Notification**

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

**EPCRA 311/312 Emergency and Hazardous Materials Reporting**

Fire Hazard: No  
Sudden Release of Pressure: No

Reactive: No  
Acute (Immediate) Health Hazard: Yes  
Chronic (Delayed) Health Hazard: Yes

**EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting**

This material does not contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations**

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

*Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.*

**Section 16: Other Information**

**Hazardous Materials Identification System (HMIS®) Classification**

Health Hazard: 1  
Chronic Health Hazard: \*  
Flammability: 0  
Physical Hazard: 0

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

**National Fire Protection Association (NFPA 704) Rating**

Health Hazard: 1  
Fire Hazard: 0  
Reactivity Hazard: 0

Special: N/A

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

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**Key to Abbreviations and Acronyms**

ATE - Acute Toxicity Estimate  
BCF - Bioconcentration Factor  
EC50 - Effective concentration, 50%  
IDHL - Immediately Dangerous to Life and Health  
Kg - Kilogram  
l - Liter  
lb - Pound  
LC50 - Lethal Concentration, 50%  
LD50 - Lethal Dose, 50%  
mg - milligram  
ml - milliliter  
N/A - Not Applicable  
N/D - Not Determined  
PEL - Permissible Exposure Limit  
REL - Recommended Exposure Limit  
STEL - Short-term Exposure Limit  
TWA - Time weighted average

ACGIH - American Conference of Industrial Hygienists  
AIHA - American Industrial Hygiene Association  
BEI - Biological Exposure Indices  
CAS - Chemical Abstracts Service  
DOT - US Department of Transportation  
EPA - US Environmental Protection Agency  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
IBC - Intermediate Bulk Container  
IMDG - International Maritime Dangerous Goods  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - US Occupational Health and Safety Administration  
SARA - US EPA Superfund Amendments and Reauthorization Act  
TSCA - US EPA Toxic Substances Control Act  
UN - United Nations

**References**

HSDB® - Hazardous Substances Data Bank

**Disclaimer**

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