

## Safety Data Sheet

**SDS ID: Stock Code BT**

**Revision date:** September 8, 2017

### Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Boiler-Aide 2-N-1 All Purpose Boiler Cleaner and Treatment

**Synonyms:** None

**Chemical family:** Corrosion Inhibitor

**Producer:** J.C. Whitlam Manufacturing Company

200 West Walnut Street

P.O. Box 380

Wadsworth, Ohio 44282-0380

[www.icwhitlam.com](http://www.icwhitlam.com)

**Telephone:** 330-334-2524 Available during normal business hours

**Emergency:** 330-334-2524 Available during normal business hours

### Section 2. HAZARDS IDENTIFICATION

**GHS Classification:** Reproductive Toxicity Category 2

**GHS label elements:**



Health Hazard

**Signal Word:** Warning

**Hazard Statements:**

**H361** Suspected of damaging fertility or the unborn child

**Precautionary Statements:**

**Prevention**

**P201** Obtain special instructions before use.

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

**P280** Wear protective gloves, protective clothing and eye protection or face protection.

**Response**

**P308 + P313** IF exposed or concerned: Get medical attention.

**Storage**

**P405** Store locked up.

**Disposal**

**P501** Dispose of contents/container to an approved waste disposal plant.

**Hazards Not Otherwise Classified (HNOC):**

None

**Additional Information:**

None

### Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Material information:

Name	CAS No.	Weight %
Sodium Tetraborate	12179-04-3	1 - 5

**Note:** The above weight percentages are represented in ranges as estimates. Due to variation among production batches, component percentages may vary.

### Section 4. FIRST AID MEASURES

#### General:

Move out of dangerous area. Perform first aid measures as indicated.

Seek medical attention and show this safety data sheet to attending physician.

#### Inhalation:

Move to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulty occurs or persists seek medical attention. If not breathing give artificial respiration and seek immediate medical attention.

#### Skin contact:

Immediately flush exposed skin with water for at least 15 minutes while removing contaminated clothing and/or shoes. Thoroughly wash with soap and water. Seek medical attention if irritation develops or persists.

#### Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms develop.

#### Eye contact:

Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. Check for and remove any contact lenses if easy to do. Seek medical attention if irritation develops or persists.

### Section 5. FIREFIGHTING MEASURES

#### Suitable Extinguishing Media:

Use extinguishing media suitable for surrounding fire or source of fire.

Use water spray to cool fire exposed containers.

#### Unsuitable Extinguishing Media:

No information available

#### Specific hazards developing from the chemical:

In fire conditions after water loss, combustion may produce oxides of nitrogen and other unidentified chemical compounds.

#### Precautions for firefighters:

No information available

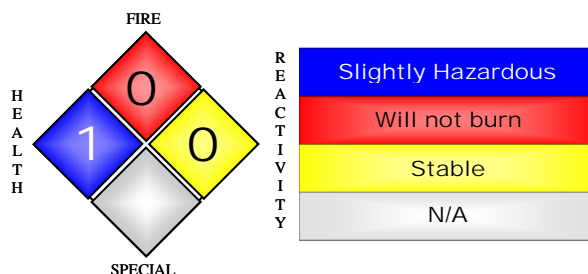
#### Firefighting Instructions:

No information available

#### Protection During Firefighting:

Wear full protective gear and full face pressure demand self-contained breathing apparatus.

NFPA rating: HMIS rating:		
Health:	1	1
Flammability:	0	0
Instability/reactivity:	0	0
Other:	N/A	C (PPE)



## Section 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Avoid direct contact with skin, eyes and clothing. Avoid inhalation of mist, vapor or dust. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.
<b>Large Spill:</b>	Prevent further leakage or spillage if safe to do so. Contain spilled material and prevent run-off onto ground or into water sources or sewers.
<b>Methods for Containment and Clean up</b>	Absorb on inert material and place in containers for disposal. Dispose of spilled/collected material in accordance with all federal, state and local regulations.

## Section 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with skin and eyes. Avoid inhalation of mist, vapor and dust. Ensure adequate ventilation. Do not eat, drink or smoke while handling. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.
<b>Storage:</b>	Store in original container. Keep container tightly closed. Store at room temperature (50-90° F) in a dry well-ventilated area.

## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational Exposure Limits:

Name	CAS No.	ACGIH® TLV®	CAL/OSHA	OSHA PEL
Sodium Tetraborate	12179-04-3	TWA, 2 mg/m <sup>3</sup> Inhalable dust	5 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> Total dust

**Engineering Measures:** Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or exposure limits. An eyewash and safety shower should be available in the work area.

### PERSONAL PROTECTIVE EQUIPMENT

#### Eye/face protection:

Safety glasses or chemical goggles should be worn when handling this material.

#### Skin protection:

Wear chemical resistant gloves when handling.

Wear chemical resistant apron when handling.

#### Respiratory Protection:

Wear respiratory protection if mist or vapor is produced, while using this material.

**General hygiene considerations:**

Follow good hygiene and safety practice. Wash hands and exposed skin before breaks and at the end of the work day. Do not eat, drink or smoke while handling this material. Do not wear contaminated or dirty clothing home from the work-site. Launder contaminated or dirty clothing before reuse.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Colorless to light pink
<b>Physical state (solid/liquid/gas):</b>	Liquid
<b>Substance type (pure/mixture):</b>	Mixture
<b>Color:</b>	Clear/Colorless
<b>Odor:</b>	Mild odor
<b>Molecular weight:</b>	Not Available
<b>pH:</b>	8
<b>Boiling point/range (5-95%):</b>	Not Available
<b>Melting point/range:</b>	Not Available
<b>Decomposition temperature:</b>	Not Available
<b>Specific gravity:</b>	1.06
<b>Vapor density:</b>	Not Available
<b>Vapor pressure:</b>	Not Available
<b>Evaporation rate (Butyl acetate= 1):</b>	Not Available
<b>Flash point, method used:</b>	Not Available
<b>Water solubility:</b>	Completely soluble
<b>VOC Content:</b>	Not Available
<b>Auto-ignition temperature:</b>	Not Available
<b>Flammable limits in air — lower (%):</b>	Not Available
<b>Flammable limits in air — upper (%):</b>	Not Available

**Section 10. STABILITY AND REACTIVITY**

<b>Reactivity:</b>	Not reactive under normal conditions
<b>Stability:</b>	Stable under recommended storage conditions
<b>Possibly hazardous reactions:</b>	None under normal processing
<b>Conditions to avoid:</b>	Avoid excessive heating, freezing and chemical contamination.
<b>Incompatible Materials:</b>	Strong acids, oxidizers
<b>Hazardous decomposition products:</b>	No decomposition products are expected under normal storage and handling conditions.

## Section 11. TOXICOLOGICAL INFORMATION

### Information on the likely routes of exposure:

**Inhalation:** No information available

**Skin Contact:** No information available

**Eye Contact:** No information available

**Ingestion:** No information available

**Symptoms related to the physical, chemical and toxicological characteristics:**

No information available

**Delayed and chronic effects:** No information available

**Numerical measure of toxicity:** Sodium Tetraborate

Component	Exposure	Species	Dose
Oral	LD50	Rat	>3200 mg/kg
Dermal	LD50	Rabbit	>2000 mg/kg

Toxicological effects of sodium tetraborate:

**Acute Toxicity:**

No information available.

**Skin Corrosion/Irritation:**

No information available.

**Serious Eye Damage/Irritation:**

No information available.

**Respiratory Sensitization:**

No information available.

**Skin Sensitization:**

No information available.

**Germ Cell Mutagenicity:**

No information available.

**Carcinogenicity:**

This product is considered to be a potential carcinogen by:

NTP: No

OSHA: No

IARC: No

**Reproductive toxicity:**

This product is known to cause reproductive and developmental effects.

**STOT-single exposure:**

No information available.

**STOT-repeated exposure:**

No information available.

**Aspiration hazard:**

This product is not an aspiration hazard.

## Section 12. ECOLOGICAL INFORMATION

Eco-toxicity: Sodium Tetraborate

Component	Type	Species	Dose, Time	Time
Fish	LC50	Rainbow Trout	150 mg/B/l	24 days
Fish	LC50	Goldfish	178 mg/B/l	72 hrs.
Invertebrate	LC50	Daphnia Magna	133 mg/B/l	48 days

**Persistence and degradability:** Mixture: No information available

**Bio accumulative potential:** Mixture: No information available

**Mobility in soil:** Mixture: No information available

**Other adverse effects:** Mixture: No information available

## Section 13. DISPOSAL CONSIDERATIONS

**Cleanup considerations:** Dispose of material in accordance with all federal, state and local regulations.

**Contaminated packaging:**

Triple rinse container and offer for recycling. Dispose of container following all federal, state and local regulations.

## Section 14. TRANSPORT INFORMATION

D.O.T. (U.S.): Not Regulated

## Section 15. REGULATORY INFORMATION

**Federal regulations:**

**SARA 311/312 Hazard categories:**

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

None.

**SARA 302 Extremely hazardous substance:** Not listed

**SARA 304 Emergency release notification:** Not regulated

**SARA 311/312 Hazardous chemical:** No

**SARA 313 Toxic Release Inventory (TRI) report:** Not regulated

**CERCLA Hazardous substance list:** Not listed

**Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):** This chemical is not a pesticide product.

**Clean Air Act regulated substances:** None

**Clean Water Act regulated substances:** None

**U.S. Regulations:** None

**Canadian Regulations:**

**Canadian Ingredient Disclosure List substances:** None listed.

**WHMIS classification:** sodium tetraborate, Class D-2A, Class D-2B

## Section 16. OTHER INFORMATION

The information and recommendations contained herein are based upon tests, data, and information resources believed to be reliable. However, the J.C. Whitlam Manufacturing Company, Inc., and its related operations or divisions (Whitlam) do not guarantee the accuracy or completeness, nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of goods, the merchantability of the goods or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage may be required. Whitlam assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of this data. No warranty against infringement of any patent, copyright or trademark is made or implied.