

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 01.08.2015**Wood Borate Reagent #2 SS****SECTION 1: Identification of the substance/mixture and of the supplier****Product name:** Wood Borate Reagent #2 SS**Manufacturer/Supplier Article number:** WB1002SS**Recommended uses of the product and restrictions on use:** Laboratory chemicals**Manufacturer Details:**

AquaPhoenix Scientific, Inc.
860 Gitts Run Road
Hanover, PA 17331
1-717-632-1291

Emergency telephone number:**ChemTel: (24-hour)**

+1(800)255-3924

+1(813)248-0585 (International)

SECTION 2: Hazards identification**Classification of the substance or mixture:****Flammable**

Flammable liquids, category 2

**Toxic**

Acute toxicity (oral, dermal, inhalation), category 3

**Health hazard**

Specific target organ toxicity following single exposure, category 1

AcTox Dermal 3.

Skin corrosion/irritation - Skin Corr. 1A.

Flammable liq. 2.

AcTox Oral 3.

AcTox Inhaln 3.

Stot SE. 1.

Signal word: Danger**Hazard statements:**

Highly flammable liquid and vapour.

Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

Causes damage to organs.

Precautionary statements:

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

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

Wash skin thoroughly after handling.

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Do not eat, drink or smoke when using this product.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Specific treatment (see supplemental first aid instructions on this label).
 IF ON SKIN: Wash with soap and water.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 Specific measures (see supplemental first aid instructions on this label).
 Take off contaminated clothing and wash before reuse.
 Wash contaminated clothing before reuse.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 IF exposed: Call a POISON CENTER or doctor/physician.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Store locked up.
 Dispose of contents and container as instructed in Section 13.

Other Non-GHS Classification: None**SECTION 3: Composition/information on ingredients****Ingredients:**

Ingredients:		
CAS 67-56-1	Methanol, ACS	81.75 %
CAS 7647-01-0	Hydrochloric Acid, ACS	14.82-14.83 %
CAS 69-72-7	Salicylic Acid, ACS	3.42-3.43 %
Percentages are by weight		

SECTION 4: First aid measures**Description of first aid measures****After inhalation:**

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical attention immediately. If breathing is difficult, give oxygen. DO NOT use mouth-to-mouth resuscitation without a barrier device to prevent responder from receiving burns.

After skin contact:

Wash affected area with soap and water. Rinse or flush skin/hair gently with water for at least 30 minutes. Seek immediate medical attention.

After eye contact:

Protect unexposed eye. Rinse or flush eye gently with water for at least 30 minutes, lifting upper and lower lids. Seek immediate medical attention (ophthalmologist).

After swallowing:

Rinse mouth thoroughly. Have exposed individual drink sips of water. Seek medical attention immediately. Induce vomiting if directed to do so by a professional. Call POISON CENTER or Emergency Response for medical attention/Advice immediately upon exposure while undertaking response measures.

Most important symptoms and effects, both acute and delayed:

Poison. Toxic by ingestion, absorption through skin and inhalation, potentially causing irreversible effects. Irritating to eyes, skin, and respiratory tract. May cause dryness and cracking of the skin. May cause irritation to

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the respiratory tract, eyes and skin. Causes burns to all areas of contact. May be fatal if ingested. Irritation/burns, all routes of exposure. Eyes: May cause irritation, burning, pain, and possible and permanent damage to the cornea and conjunctiva. Skin: May cause irritation, redness, pain. Ingestion: May cause nausea, cramps, vomiting, diarrhea, burning of the throat, mouth, esophagus and gastrointestinal tract, and possible death. Inhalation: May cause irritation to the upper respiratory tract, eyes, throat, mucous membrane and nose. High concentrations can have narcotic effect. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Central nervous system disorders. Skin disorders, preexisting eye disorders, gastrointestinal tract. Toxic: danger of very serious irreversible effects by inhalation, ingestion or absorption through skin. Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse kidney and liver effects.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing agents:**

Water spray can keep containers cool. Water, dry chemical, foam, or Carbon Dioxide. Water spray can be used to dilute spills to nonflammable mixtures. Neutralize with soda ash or slaked lime.

Unsuitable extinguishing agents:

Water may be ineffective.

Special hazards arising from the substance or mixture:

Risk of ignition. Flammable and Corrosive liquid. Vapors may ignited and cause explosion if in confined space. Vapors can flow across ignition source and flashback. May react with metals to release hydrogen gas. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

Advice for firefighters:**Protective equipment:**

Wear protective eyewear, gloves, and clothing. Use normal procedures. Poisonous gases may be produced in fire. Use protective clothing. Use NIOSH-approved breathing equipment. Refer to Section 8.

Additional information (precautions):

Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Take precautions against static discharge.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

Use spark-proof tools and explosion-proof equipment. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Ensure adequate ventilation. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Should not be released into environment.

Methods and material for containment and cleaning up:

If necessary use trained response staff or contractor. Do not flush to sewer. Refer to Section 13. Contain spill. Absorb with suitable material and place in chemical waste container. Ventilate area of spill. Use non-sparking equipment. Have fire extinguishing agent available in case of fire. Neutralize with soda ash or sodium carbonate. Add water to form slurry. Containerize for disposal. Always obey local regulations. Follow proper disposal methods. Remove all sources of ignition.

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Reference to other sections: None

SECTION 7: Handling and storage**Precautions for safe handling:**

Use in a chemical fume hood. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Take precautions against static discharge. Empty containers can still be hazardous since they retain product residue.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Keep container tightly closed. Store with like hazards. Protect from freezing and physical damage.

SECTION 8: Exposure controls/personal protection**Control parameters:**

67-56-1, Methanol., ACGIH: 250 ppm STEL; 200 ppm TWA.
 7647-01-0, Hydrogen chloride (Hydrochloric acid), ACGIH TLV 2 ppm Ceiling.
 7647-01-0, Hydrogen chloride (Hydrochloric acid), NIOSH 5 ppm Ceiling; 7 mg/m³ Ceiling.
 7647-01-0, Hydrogen chloride (Hydrochloric acid), NIOSH 50 ppm IDLH.
 7647-01-0, Hydrogen chloride (Hydrochloric acid), OSHA PEL 5 ppm Ceiling; 7 mg/m³ Ceiling.
 67-56-1, Methanol., NIOSH: 250 ppm STEL; 325 mg/m³ STEL.
 67-56-1, Methanol., NIOSH: 200 ppm TWA; 260 mg/m³ TWA.
 67-56-1, Methanol., ACGIH TLV: 262mg/m³.
 67-56-1, Methanol., OSHA PEL: 260mg/m³.
 7647-01-0, Hydrochloric acid, ACGIH TLV: 7.5mg/m³.
 7647-01-0, Hydrochloric acid, OSHA PEL: 7mg/m³.

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Ensure that dust-handling systems (exhaust ducts, dust collectors, vessels, and processing equipment) are designed to prevent the escape of dust into the work area.

Respiratory protection: Use in a chemical fume hood. If exposure limit is exceeded, a full-face respirator with organic cartridge may be worn.

Protection of skin: Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation.

Eye protection: Safety glasses with side shields or goggles.

General hygienic measures: Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Clear colorless liquid	Explosion limit lower: Explosion limit upper:	Not determined Not determined
Odor:	Acrid to slightly pungent	Vapor pressure at 20°C:	Not determined
Odor threshold:	Not determined	Vapor density:	Not determined

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pH-value:	Not determined	Relative density:	Not determined
Melting/Freezing point:	Not determined	Solubilities:	Not Determined.
Boiling point/Boiling range:	Not determined	Partition coefficient (n-octanol/water):	Not determined
Flash point (closed cup):	Not determined	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	Not determined	Decomposition temperature:	Not determined
Flammability (solid, gaseous):	Flammable	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined
Density at 20°C:	Not determined		

SECTION 10: Stability and reactivity**Reactivity:**

Vapours may form explosive mixture with air.

Chemical stability:

Stable under normal conditions.

Possible hazardous reactions:

None under normal processing.

Conditions to avoid:

Excess heat, Incompatible Materials, flames, or sparks.

Incompatible materials:

Strong oxidizers, heat, sparks, open flames. Will attack some forms of rubber, plastics and coatings. May react with metallic aluminum and generate hydrogen gas.

Hazardous decomposition products:

carbon monoxide, formaldehyde. Toxic oxides of carbon, fumes of hydrogen chloride and hydrogen.

SECTION 11: Toxicological information**Acute Toxicity:****Dermal:**

LD-50 15800 mg/kg (rabbit).

LD50 Rabbit >5010 mg/kg 7647-01-0.

Chronic Toxicity: No additional information.

Skin corrosion/irritation: No additional information.

Serious eye damage/irritation:

irritating to eyes and skin.

Respiratory or skin sensitization: No additional information.

Carcinogenicity: No additional information.

Germ cell mutagenicity: No additional information.

Reproductive Toxicity:

Have occurred in experimental animals

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Classified as causing damage to organs: Eyes, skin, optic nerve, gastrointestinal tract, central nervous system, respiratory system, liver, spleen, kidney, blood

Additional toxicological information:

No additional information.

SECTION 12: Ecological information**Ecotoxicity:**

Crustacea (acute 69-72-7), 48 Hr EC50 Daphnia magna: 870 mg/L [Static].
 Freshwater Fish, 96 Hr LC50 Pimephales promelas: 28200 mg/L.
 Freshwater Fish, 96 Hr LC50 Oncorhynchus mykiss: 19500 - 20700 mg/L.
 Freshwater Fish, 96-Hr LC50 Pimephales promelas: > 100 mg/L.
 Freshwater Fish, 96 Hr LC50 Oncorhynchus mykiss: 18 - 20 mL/L.
 Freshwater Fish, 96 Hr LC50 Lepomis macrochirus: 13500 - 17600 mg/L.

Persistence and degradability:

Not persistent.

Bioaccumulative potential:

Not expected to bio accumulate.

Mobility in soil:

Aqueous solution has high mobility in soil.

Other adverse effects: No additional information.

SECTION 13: Disposal considerations**Waste disposal recommendations:**

Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Absorb with a noncombustible absorbent material such as sand or earth and containerize for disposal. Provide ventilation. Have fire extinguishing agent available in case of fire. Eliminate all sources of ignition. Use spark-proof tools and explosion-proof equipment. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14: Transport information**US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA

UN2924

Limited Quantity Exception:

None

Bulk:**RQ (if applicable):** None**Proper shipping Name:** Flammable Liquid, Corrosive, N.O.S., (Methanol & Hydrochloric Acid solution).**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** Flammable Liquid, Corrosive, N.O.S., (Methanol & Hydrochloric Acid solution).

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Wood Borate Reagent #2 SS**Hazard Class:** 3, 8**Packing Group:** II.**Marine Pollutant (if applicable):** No**Comments:** None**Hazard Class:** 3, 8**Packing Group:** II.**Marine Pollutant (if applicable):** No**Comments:** None**SECTION 15: Regulatory information****United States (USA)****SARA Section 311/312 (Specific toxic chemical listings):**

Acute, Chronic, Fire

SARA Section 313 (Specific toxic chemical listings):

67-56-1 Methanol.

7647-01-0 Hydrochloric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size; 1.0 % de minimis concentration).

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) :

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

67-56-1 Methanol 5000.

7647-01-0 Hydrochloric acid 5000 lbs.

Proposition 65 (California):**Chemicals known to cause cancer:**

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

67-56-1 Methanol.

Canada**Canadian Domestic Substances List (DSL) :**

All ingredients are listed.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation

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to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 3-0-0**HMIS:** 3-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:**

IMDG	International Maritime Code for Dangerous Goods.
PNEC.	Predicted No-Effect Concentration (REACH).
CFR	Code of Federal Regulations (USA)
SARA	Superfund Amendments and Reauthorization Act (USA).
RCRA.	Resource Conservation and Recovery Act (USA).
TSCA.	Toxic Substances Control Act (USA).
NPRI	National Pollutant Release Inventory (Canada).
DOT	US Department of Transportation.
IATA	International Air Transport Association.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service (division of the American Chemical Society).
NFPA	National Fire Protection Association (USA).
HMIS	Hazardous Materials Identification System (USA).
WHMIS	Workplace Hazardous Materials Information System (Canada).
DNEL	Derived No-Effect Level (REACH).