



25
flame spread

tests conducted by

INTERTEK
LABS

BARRIERTEK

90
day

All conditions warranty.



B5 INDUSTRIES

9928 Bell Ranch Dr.
Santa Fe Springs CA 90670
info@B5Industries.com
(714) 600-4061
(657) 363-2072

CuB more than just
a wood preservative.

Class A fire retardant

FEATURES



fire retardant



insecticide



co-biocide



fungicide

www.B5Industries.com



Protection
you
can
trust.

Complex copper-borate solution formulated to create synergy in the form of a fire-retardant and co-biocide.

As a fire retardant system, the CuB solution is a self-charring substance which is able to reduce the oxygen supply to any wood surface and thus retard the flame. The copper borate has been tested in accordance with Can/ULS S-102/ ASTM E84-10 and has achieved a flame spread of 23 on 2x6" dimensial lumber, 25 on 1/2" plywood and 65 on 3/8" oriented strand board (OSB). In smoke development tests, on 1/2" plywood it achieved a classification of 30 and on 3/8" OSB it achieved a classification of 65.

As a co-biocide, CuB is able to protect against a very broad range of insects, bacteria, fungi, and other wood decaying organisms. Copper and borates have both been studied independently and as a functioning pair in preservative systems and compounds. Borates are the safest and greenest method of wood preservation due to their low mammalian toxicity, high diffusibility, and natural occurrence as a micronutrient in soil to plants and other vegetation. Borates have the ability to migrate and seek moisture so when they are combined with the potency and permanence of copper an efficient system of delivery and protection manifests. The effective ingredient complex releases the potency of borates migrating rapidly thereby providing immediate protection while at the same time extending the protection by releasing the long lasting slower moving copper. Wood can be effectively protected against insects, bacteria, fungi, or other wood decaying organisms for up to 10 years.

CSI: DIVISION: 09 00 00—FINISHES
Section: 09 96 43—Fire-Retardant Coatings

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: B5 CuB

Listee: B5 INDUSTRIES

Evaluation: B5 CuB is a copper-borate solution and fire-retardant coating; when applied on unfinished spruce pine fir dimensional lumber at a minimum coverage rate of 10 m²/L (407.5 square feet per gallon), the B5 CuB fire-retardant coating was evaluated based on testing in accordance with the following standard:

- CAN/ULC-S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies, Underwriters Laboratories of Canada.

Findings: The B5 CuB fire-retardant coating has a flame spread index of 25 and a smoke-developed index of 100, when tested in accordance with CAN/ULC-S102, as referenced in the applicable sections of the following code editions:

- *National Building Code of Canada*® 2015
Applicable Section: Volume 1, Division B, Section 3.1.12.
- *National Building Code of Canada*® 2010
Applicable Section: Volume 2, Division B, Section 3.1.12.

Identification:

1. Containers of B5 CuB fire-retardant coating are identified by the label bearing the manufacturer's name (B5 Industries) and address, the product name (B5 CuB), the date of the manufacture, shelf life, the manufacturer's instructions for application, the ICC-ES listing report number (ESL-1183), and the ICC-ES listing mark.

2. The report holder's contact information is the following:

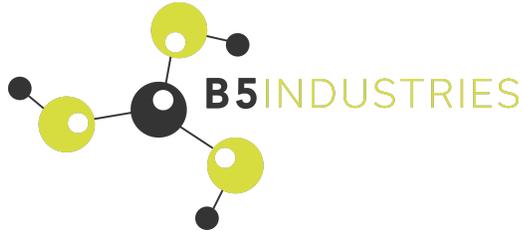
B5 INDUSTRIES
9928 BEL RANCH DRIVE
SANTA FE SPRINGS, CALIFORNIA 90670
(657) 363-2072
www.B5industries.com

Installation: The product must be installed in accordance with the B5 Industries published instructions for application and applicable codes.

Conditions of Listing:

1. The listing report addresses only conformance with the standard and code sections noted above.
2. Approval of the product's use is the sole responsibility of the local code official.

3. The listing report applies only to the materials tested and as submitted for review by ICC-ES.
4. The B5 CuB fire-retardant coating is manufactured in Acheson, Alberta, Canada under a quality control program with inspections by ICC-ES.



Safety Data Sheet
DATE OF ISSUE June 2020

B5 - CUB

SECTION 1: Identification

Trade name (as labeled): Genics CuB 20/ B5 CuB
 Product Class: Fungicide, Insecticide, Mouldicide, Wood Preservative
 Manufacturer's Name: **GENICS INC.**
 27717 Acheson Rd
 Acheson Industrial Park.
 Acheson,
 Alberta Canada
 T7X 6B1

Emergency Phone: For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire,
Exposure, Or Accident Call CHEMTREC Day or Night 1-800-424-9300 / + 1-703-527-3887

Genics Business Phone:.....(780) 962-1000

SECTION 2: Hazard Identification (toxicological properties)

EMERGENCY OVERVIEW

May be harmful if swallowed. Avoid contact with eyes and skin. May cause eye irritation. Avoid rubbing eyes while working with product. Wash hands thoroughly with soap and water after handling and before eating, drinking or smoking. Store and wash all protective clothing separately from household laundry. Personal protective clothing, normal work clothes (i.e. long pants, shoes, a long sleeved shirt) plus waterproof gloves for all users of product. Do not leave container where children or animals may gain access.

Genics CuB 20 is a deep blue-green gel that is not flammable, combustible, or explosive.

<u>Name</u>	<u>Toxicological D a t a</u>
CuB 20	LD ₅₀ oral rat acute greater than 5,000 mg/kg B.W. LD ₅₀ dermal rat greater than 2,000 mg/kg B.W. LC ₅₀ inhalation rat greater than 2 mg/L

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: There is no health hazard anticipated to occur during routine use of this product. The symptoms of such overexposures are described in the following paragraphs.

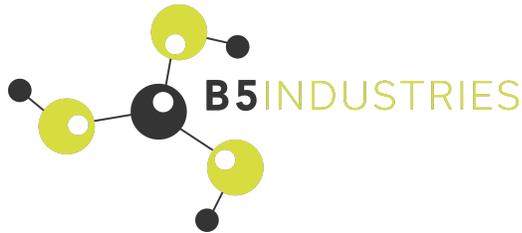
INHALATION: This product is in U.S. EPA Category III for inhalation with I being highest and IV being lowest). At most, the exposure to the mist may cause mild irritation of the respiratory system, or mucous membranes. Symptoms may include dry throat or coughing.

CONTACT WITH SKIN OR EYES: Though unlikely to occur, contact with the product and the skin or eyes may lead to mild irritation.

SKIN ABSORPTION: Exposure via skin absorption is not expected to produce adverse health effects.

INGESTION: Though very unlikely to occur in an occupational setting, if this product is ingested, symptoms may include nausea and vomiting.

INJECTION: Injection of the product (via punctures with contaminated, sharp objects or pre-existing breaks in the skin) may produce redness, local swelling, and tissue damage at the injection site.



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HEALTH EFFECTS OR RISK FROM EXPOSURE:

Health Hazards – Classification of the substance or mixture
Reproductive Toxicity Category 2
GHS label elements, including pictogram or symbol, hazard and precautionary statements

Hazard Pictograms

Signal Word: WARNING



Hazard Statements: H361- Suspected of damaging fertility or the unborn child
Precautionary Statements:
P202: Do not handle until all safety precautions have been read and understood
P308 + P313: IF exposed or concerned, seek medical attention/advice
P501: Dispose of contents/container in accordance with local regulation

There are no medical conditions known to be aggravated by exposure to this product.
Product ingredients are not listed as a carcinogen or potential carcinogen on the following lists:
US OSHA Z LIST, NTP, IARC, CAL/OSHA.

ACUTE: Symptoms of short-term exposure to this product or product spray generated by this product may cause minimal irritation of the eyes, skin and respiratory system. If ingested, nausea and vomiting may occur.

CHRONIC: Prolonged or repeated skin overexposure to this product may lead to dermatitis (inflamed, dry skin) and chapping.

TARGET ORGANS: Skin, eyes, respiratory system (to product mist/spray only).

SECTION 3: Composition / Information on Ingredients

SECTION 4: First Aid Measures

Eyes: Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

Inhalation: If symptoms such as nose or throat irritation are observed, remove person to fresh air.

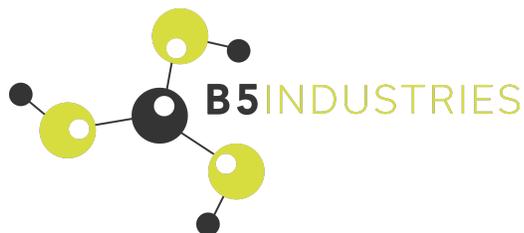
Fire: Product is non-combustible. Extinguishing media N/A.

Skin: Skin contact does not present any unusual hazard as product is non-irritating.

SECTION 5: Fire-Fighting Measures

FLASH POINT: Not applicable

AUTOIGNITION TEMPURATURE, EC: Not applicable



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FLAMMABLE EXTINGUISHING MATERIALS: This product is not flammable. Use fire extinguishing material appropriate for the surrounding area.

- Water Spray: YES
- Carbon Dioxide: YES
- Foam: YES
- Dry Chemical: YES
- Halon: YES
- Other: Any “ABC” Class

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product presents no unusual hazards to fire-fighters if involved in a fire.

EXPLOSION SENSITIVITY TO MECHANICAL IMPACT: Not sensitive.

EXPLOSION SENSITIVITY TO STATIC DISCHARGE: Not sensitive.

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear self-contained breathing apparatus and full protective equipment. Move fire-exposed containers if it can be done without risk to fire-fighters. If possible, fire-fighters should control run-off water to prevent environment contamination.

SECTION 6: Accidental Release Measures

SPILL AND LEAK RESPONSE: Due to the nature of this product, no special accidental release measures are normally required. Uncontrolled releases involving other materials released near this product should be responded to by appropriately trained personnel using pre-planned procedures. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and the applicable standards of Canada and its Provinces (see Disposal and Considerations).

SECTION 7: Handling and Storage Procedures

- Do not contaminate water, food or feed by storage or disposal.
- Store in original container in a cool, dry place inaccessible to children and pets and away from food or feed.
- Keep out of reach of children at all times.
- Do not freeze.
- Do not use in situations where food could become contaminated
- Genics CuB 20 may cause drying of the skin.

SECTION 8: Exposure Controls – Personal Protection

Ventilation Requirements: No special ventilation system required.

Body Protection: Gloves, long sleeved shirt and pants.

Respiratory Protection: No special respiratory protection required.

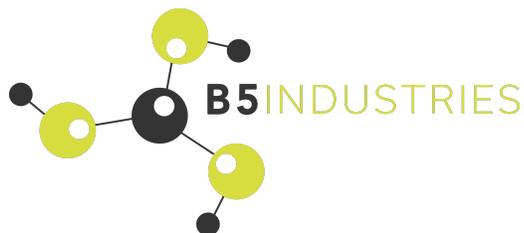
Eye Protection:

Eye goggles.

Hygienic Practices:

Wash hands before eating or smoking.

SECTION 9: Physical and Chemical Properties



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SECTION 10: Stability and Reactivity

Stability:	Stable	Conditions to Avoid:	No known conditions to avoid.
Hazardous Decomposition Products:	None	Incompatibility (Materials to Avoid):	No known materials to avoid.
Hazardous Polymerization:	Will not Occur		

SECTION 11: Toxicological Information

Name	Toxicological Data
CuB 20	LD ₅₀ oral rat acute greater than 5,000 mg/kg B.W. LD ₅₀ dermal rat greater than 2,000 mg/kg B.W. LC ₅₀ inhalation rat greater than 2 mg/L

SECTION 12: Ecological Information

- ◆ Boron and Copper are essential micronutrients for healthy plant growth; however, this product can be harmful to boron or copper sensitive plants in high quantities. Care should be taken to minimize the amount of product released to the environment.
- ◆ Boron and Copper are naturally occurring and ubiquitous in the environment.
- ◆ This product has a relatively low mammalian toxicity.
- ◆ This product is not known to pose any adverse effect on aquatic life when applied as per label instructions.
- ◆ This product is completely soluble in water and leachable through normal soil.

U.S. Users

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Eliminations Systems (NPDES) permit and the permitting authorities have been notified in writing prior to the discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of EPA.

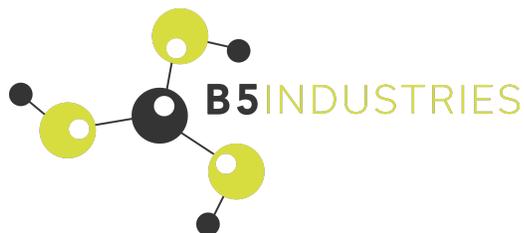
SECTION 13: Disposal Considerations

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State and local regulations or those of Canada and its Provinces. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

U.S. EPA WASTE NUMBER: Not applicable to wastes consisting only of this product.

PESTICIDE DISPOSAL: Pesticide wastes are considered to be acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use, according to the label instruction, contact the appropriate U.S. States Pesticide or Environment Control Agency, the Hazardous Waste Representative at the nearest EPA Regional Office, or the offices of Environment Canada for guidance.

CONTAINER DISPOSAL: If necessary, triple rinse (or equivalent), then offer the container for recycling or reconditioning. Alternatively, puncture the container and dispose of in a procedure approved by local authorities.



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SECTION 14: Transportation Information

- Not classified as dangerous goods under ADR or PGR regs.
- No special requirements necessary.

SECTION 15: Regulatory Information

Canadian PMRA Pending
 U.S. EPA Pesticide Reg. # 71653-9

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

US Federal regulations

TSCA: All components are on the U.S. EPA TSCA Inventory List.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical No

CERCLA (Superfund) reportable quantity None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - NO
 Delayed Hazard - NO
 Fire Hazard - NO
 Pressure Hazard - NO
 Reactivity Hazard - NO

Section 302 extremely hazardous substance NO

Section 311 hazardous chemical NO

Clean Air Act (CAA) Not regulated

Clean Water Act (CWA) Per label storage and disposal instructions

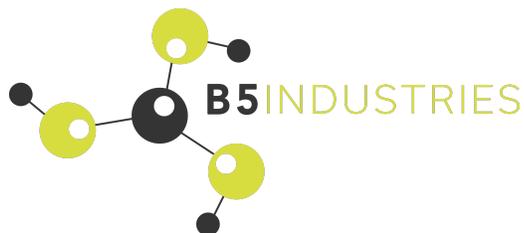
WHMIS classification Not Available

State regulations **California (PROP 65):** This product does NOT contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm

New Jersey - Right to Know Hazardous Substance List: Not listed

Inventory name

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No



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United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes
A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

SECTION 16: Other Information

Date of Issue: June 2020
Supersedes: None

Prepared by: Genics Inc.
Phone: (780) 962-1000 or
Toll-free 1-877-943-6427
Fax: (780) 962-1052

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