

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATIONPRODUCT NAME: **B-SURE® HAND SANITIZER (GEL)**

PRODUCT PART NUMBERS: 91201 (Squeeze bottle 2-oz), 91202 (Pump Bottle 8-oz)

MANUFACTURED BY: BIRCHWOOD LABORATORIES, INCORPORATED

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Eden Prairie, MN 55344 USA

Product Information Telephone Number: (952) 937-7900 (8:00-4:00pm CST)

Fax Number: (952) 937-7979

www.birchwoodlabs.com**24 HOUR TRANSPORTATION EMERGENCY NUMBER: CHEMTREC 800-424-9300 U.S. & CANADA
703-527-3887 INTERNATIONAL (Collect)****2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW: WARNING! Flammable liquid and vapor.** Keep away from sparks and open flames. Cans involved in fire may explode. Harmful if inhaled or swallowed. Irritating to eyes, skin, upper respiratory tract.

APPEARANCE/ODOR: Clear liquid with alcohol odor

EYE CONTACT: Irritation, possible corneal injury upon direct contact. Symptoms may include stinging, tearing, redness and swelling.

SKIN CONTACT: Mildly irritating. Prolonged or repeated skin contact can result in defatting, drying of the skin. Symptoms may include redness, stinging.

INGESTION: Irritation to the gastrointestinal tract. This material can enter the lungs during swallowing or vomiting and cause lung damage.

INHALATION: Inhalation may cause irritation to the respiratory tract (nose, throat and lungs). Inhalation of high vapor concentrations may cause central nervous system effects, and symptoms such as headache, dizziness, disorientation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Description | CAS # | Weight % | OSHA PEL* TWA | OSHA PEL STEL/C | ACGIH TLV TWA | ACGIH TLV STEL/C |
|-------------------|-----------|----------|---------------|-----------------|---------------|------------------|
| Ethyl Alcohol | 64-17-5 | <62 | 1000 ppm | NE | 1000 ppm | NE |
| Isopropyl Alcohol | 67-63-0 | < 3 | 400 ppm | NE | 400 ppm | 500 ppm |
| Glycerin | 56-81-5 | < 2 | NE | NE | NE | NE |
| Water | 7732-18-5 | > 33 | NE | NE | NE | NE |

TWA – Time-weighted Average STEL – Short-term exposure limit C – Ceiling I – Inhalable Fraction

(skin) – skin designation means that harmful amounts may be absorbed through the skin

* Certain States enforce PELs that were in place in 1989, but were later removed by the U.S. Supreme Court. Check with your State OSHA to determine which PEL is enforced in your State.

NE = not established NA = not applicable NDA = no data available

4. FIRST AID MEASURES

EYE CONTACT: Flush immediately with clean water. Continue for at least 15 minutes. Seek medical attention if necessary.

SKIN CONTACT: Remove contaminated clothing to avoid prolonged contact. Wash affected areas with water. Seek medical attention if irritation develops.

INGESTION: Call Poison Control Center immediately. DO NOT induce vomiting. If victim is conscious, give 1 – 2 glasses of water.

INHALATION: Remove from exposure. Seek medical attention if necessary if breathing is difficult. Seek medical attention if symptoms of overexposure develop or persist.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 78°F (25.5°C)

METHOD USED: Closed Cup

FLAMMABLE LIMITS LFL: NDA

UFL: NDA

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol-type foam or water spray

FIRE & EXPLOSION HAZARDS: Vapors may form an explosive mixture in air. Flash back possible over considerable distance. Closed containers may rupture when exposed to extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear approved SCBA and full turn-out gear.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear recommended protective equipment. Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place material into a closed container. Use only non-sparking tools for cleanup. Prevent material from entering water systems or sewers.

Review current local, state and federal laws, codes, statutes, and regulations to determine appropriate agencies to be notified, and the conditions under which they are to be notified. (See Section 13 for waste disposal comments).

7. HANDLING AND STORAGE

HANDLING: Avoid breathing vapors. Avoid eye and skin contact. Prohibit smoking in the area and exclude sources of spark or open flame. Avoid static discharge. Wear protective equipment when handling product. Empty containers may still have product residue and flammable vapors. Keep container tightly closed. Keep out of the reach of children.

STORAGE: Do not store where temperature may exceed 120°F. Store liquid in closed containers. Store away from oxidizers.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Not normally required. Use a NIOSH approved respirator (Full or half-face organic vapor cartridge type) if any of the occupational exposure limits in Section 3 may be exceeded.

EYE PROTECTION: Not normally required.

PROTECTIVE GLOVES / BODY PROTECTION: Not normally required.

VENTILATION: Use general/dilution or local exhaust ventilation as needed to ensure that occupational exposure limits are not exceeded.

OTHER PROTECTIVE EQUIPMENT: NA

NOTE: All PPE should be selected on the basis of an exposure assessment performed by a competent person.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 172°-176°F (78°-80°C)

VAPOR PRESSURE: NDA

VAPOR DENSITY: (Air = 1): > 1

SOLUBILITY IN WATER: Miscible

APPEARANCE: Clear liquid

SPECIFIC GRAVITY: (Water = 1): 0.8865

VOLATILE BY VOLUME: < 80% (except water)

EVAPORATION RATE: (Ethyl Ether = 1): > 1

pH: 4.85

ODOR: alcohol odor

10. STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Avoid high temperatures and ignition sources.

INCOMPATIBILITY (materials to avoid): Strong oxidizers, reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce carbon monoxide, carbon dioxide

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

There is no product based toxicological information for this product. Toxicology information is provided based on individual ingredients.

LD_{50s}, oral, rat: 5045 mg/kg (isopropanol), 7060 mg/kg (ethanol)

TARGET ORGANS: Eyes, skin, lungs (irritant), liver, CNS. Chronic ingestion of ethanol is associated with birth defects, ingestion is not an anticipated route of exposure for this product.

Medical conditions that may be aggravated by exposure: Pre-existing skin, eye, respiratory, CNS, liver disease.

Carcinogenicity: IARC: 3* (isopropanol) NTP: None OSHA: None

* unclassifiable as to carcinogenicity in humans

12. ECOLOGICAL INFORMATION

ECOTOXICITY: NDA

ENVIRONMENTAL FATE: NDA

13. DISPOSAL CONSIDERATIONS

Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be dealt with by a licensed facility or waste hauler.

14. TRANSPORT INFORMATION**D.O.T. HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME:**

Ethanol Solution, 3, UN 1170, P.G. III

15. REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCES CONTROL ACT): the materials in this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Response compensation and Liability Act, 40 CFR 117, 302: Reportable Quantities: NDA

SARA TITLE III (Superfund Amendments and Authorization Act):

Section 311/312:

Immediate Health Effects: Yes

Delayed Health Effects: Yes

Fire Hazard: Yes

Sudden Release of Pressure Hazard: No

Reactivity Hazard: No

Section 313 Reportable Ingredients: Isopropanol

STATE "RIGHT-TO-KNOW": This product may contain components cited on certain state lists. Consult with your individual State regarding this product's components.

16. OTHER INFORMATION

National Fire Protection Association (NFPA): Health: 1 Flammability: 3 Reactivity: 0

The data here is for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this MSDS (Material Safety data Sheet) may be duplicated or the data transcribed to an alternative form.

NOTE: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Birchwood Laboratories, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period.

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FOR ASSISTANCE WITH PLACING ORDERS:

- Product Pricing / Payment Terms
- Shipping and Tracing of Shipments
- Sales Rep Locations

Call our Sales Department (952) 937-7943

Or 1-800-328-6156 or Fax (952) 937-7979

FOR PRODUCT USAGE ASSISTANCE

- Questions on Operation of Products
- Solving Problems
- Operator Safety and Pollution Control

Call our Customer Service Desk (952) 937-7943

Or 1-800-328-6156 or Fax (952) 937-7979