



**SAFETY DATA SHEET**  
**COPPER HOOF TREATMENT**

**Alberta Vet Laboratories Ltd.**  
Document No.:  
**SDS-QC.015**  
Version:1.0  
Effective Date: 2020-03-16

**SAFETY DATA SHEET**  
**Copper Hoof Treatment**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**SDS Name:** Copper Hoof Treatment  
**Product ID :** CHT500  
**Synonyms:** Copper naphthenate mixture  
**Chemical Family:** NA  
**Application:** For external use only on cattle, horses, sheep, goats and pigs

**Distributed by:** Alberta Veterinary Laboratory Ltd.  
7226- 107<sup>th</sup> Avenue South East  
Calgary, Alberta Canada  
T2C5N6

For information, call: (403) 456-2245  
Emergency number: (613) 996-6666 (CANUTEC)  
1-800 463- 5060 OR  
(418) 656-8090 (Control Poison Center)

**2. HAZARDS IDENTIFICATION**

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:** Slightly hazardous in case of skin contact (irritant).  
CARCINOGENIC EFFECTS: Not available.  
MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to central nervous system (CNS). The substance may be toxic to blood, kidneys, the nervous system, peripheral nervous system. Repeated or prolonged exposure to the substance can produce target organs damage.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Copper Naphthenate	37.5	Naphthenic Acids: ORAL (LD50): Acute: 3000 mg/kg [Rat]. Stoddard solvent: ORAL (LD50): Acute: >5000 mg/kg [Rat]. DERMAL (LD50): Acute: >3000 mg/kg [Rabbit]. Copper Naphthenate:



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		ORAL (LD50): Acute: 2000 mg/kg [Rat]. 1897 mg/kg [Mouse].
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#### 4. FIRST AID MEASURES

<b>Eye Contact:</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
<b>Skin Contact:</b>	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion:</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear

#### 5. FIRE FIGHTING MEASURES

<b>Flash Point:</b>	43°C / 110°F
<b>Flash Point Method:</b>	Pensky- Martens
<b>Auto ignition Temperature:</b>	230°C / 446°F
<b>Flammable Limits in Air (%):</b>	Lower: 1 Upper: 6
<b>Extinguishing Media:</b>	Slightly explosive in presence of open flames and sparks. Nonexplosive in presence of shocks.
<b>Special Exposure Hazards:</b>	Vapor may form explosive mixture with air. (Stoddard solvent)
<b>Hazardous Decomposition/ Combustion Materials (under fire conditions):</b>	Not available
<b>Special Protective Equipment:</b>	Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Never direct a water jet in the container in order to prevent any splashing of the product which could cause spreading of the fire. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Small Spill:</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Large Spill:</b>	Flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside



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container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents
<b>Storage:</b>	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<b>Engineering Controls:</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the workstation location.
<b>Personal Protection:</b>	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Exposure Limits:</b>	Stoddard solvent TWA: 500 (ppm) from OSHA (PEL) [United States] TWA: 100 (ppm) from ACGIH (TLV) [United States] TWA: 350 (ppb) from NIOSH [United States] TWA: 2900 (mg/m3) from OSHA (PEL) [United States] TWA: 100 STEL: 200 (ppm) [Canada] TWA: 525 STEL: 1050 (mg/m3)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Colour:</b>	Blue-green
<b>Odour:</b>	Hydrocarbon
<b>pH:</b>	Not Available
<b>Specific Gravity:</b>	0.92-0.95 @ 20°C
<b>Boiling Point:</b>	149°C
<b>Freezing/ Melting Point:</b>	Not Available
<b>Vapour Pressure:</b>	0.4 kPa @ 20°C
<b>Vapour Density:</b>	4.8



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<b>% Volatile by Volume:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Solubility:</b>	Insoluble in cold water, hot water
<b>VOCs:</b>	Not Available
<b>Viscosity:</b>	Not Available
<b>Molecular Weight:</b>	Not Available
<b>Other:</b>	Not Available

**10. STABILITY AND REACTIVITY**

<b>Stability:</b>	The product is stable.
<b>Instability Temperature:</b>	Not available.
<b>Conditions of Instability:</b>	Heat, ignition sources, incompatible materials
<b>Incompatibility with various substances:</b>	Reactive with oxidizing agents. Slightly reactive to reactive with acids.
<b>Corrosivity:</b>	Non-corrosive in presence of glass.
<b>Special Remarks on Reactivity:</b>	Not available
<b>Special Remarks on Corrosivity:</b>	Not available.
<b>Polymerization:</b>	Will not occur.



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**11. TOXICOLOGICAL INFORMATION**

<b>Route of Entry:</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals:</b>	Acute oral toxicity (LD50): 1897 mg/kg [Mouse]. (Copper Naphthenate). Acute dermal toxicity (LD50): >3000 mg/kg [Rabbit]. (Stoddard solvent).
<b>Chronic Effects on Humans:</b>	Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, peripheral nervous system.
<b>Other Toxic Effects on Humans:</b>	Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.
<b>Special Remarks on Toxicity to Animals:</b>	Lethal Dose/Conc: LD [Rat] - Route: Inhalation (mist); Dose: >5500 mg/m <sup>3</sup> /4H (Stoddard solvent)
<b>Special Remarks on Chronic Effects on Humans:</b>	Not available.
<b>Special Remarks on other Toxic Effects on Humans:</b>	Acute Potential Health Effects: Skin: It may cause skin irritation. Eyes: Contact may cause eye irritation. Contact may also cause conjunctivitis. Vapors may be irritating to the eyes. Inhalation: This product may cause upper respiratory tract, irritation. Excessive inhalation of this product's vapors, which contains Mineral Spirits (Stoddard solvent), may affect behavior/central nervous system and cause dizziness, drowsiness, somnolence, convulsions, tremors, passing-out, impairment of short-term memory, loss of coordination and judgement, personality changes (irritability), fatigue, sleep disturbances, headache, giddiness, fatigue, headache, stupor, unconsciousness, followed by coma. It can also affect the nerves supplying internal organs (autonomic nerves) and/or peripheral nerves to the legs and arms (weakness, "pins and needles")It can also cause nausea and vomiting, chest pain, difficulty breathing. It may also affect the liver and kidneys. Ingestion: Slightly toxic. Ingestion of copper salts may produce vomiting, metallic taste, headache, cold sweats, shock, jaundice, swollen liver, kidney damage, CNS depression, and death from CNS depression, or delayed death from kidney or liver failure. Whether such serious effects occur following copper naphthenate ingestion is unknown. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may cause anemia. Skin: Prolonged or repeated skin contact may cause drying and cracking of the skin (defatting) dermatitis, irritation, skin ulcers or pruritic eczema. Inhalation: Repeated or prolonged inhalation can affect behavior/central nervous system with symptoms similar to that of acute inhalation. It may also cause kidney damage and affect the blood (normocytic anemia)



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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available.  
**BOD5 and COD:** Not available.  
**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
**Toxicity of the Products of Biodegradation:** Not available.  
**Special Remarks on the Products of Biodegradation:** Not available.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**14. TRANSPORT INFORMATION**

**DOT:** CLASS 3: Flammable liquid  
**Identification:** Flammable liquids, n.o.s. (Copper naphthenate & Stoddard solvent) UNNA: 1993 PG: III  
**Special Provisions for Transport:** Not available.

**15. REGULATORY INFORMATION**

**Federal and State Regulations:** Connecticut hazardous material survey.: Naphthenic Acids  
Illinois toxic substances  
disclosure to employee act: Naphthenic Acids; Stoddard solvent Illinois chemical safety act:  
Naphthenic Acids New York release reporting list: Naphthenic Acids Rhode Island RTK  
hazardous substances: Stoddard solvent Pennsylvania RTK: Naphthenic Acids; Stoddard solvent  
Minnesota: Stoddard solvent Massachusetts RTK: Naphthenic Acids; Stoddard solvent  
Massachusetts spill list: Naphthenic Acids New Jersey: Naphthenic Acids; Stoddard solvent New  
Jersey spill list: Naphthenic Acids Louisiana spill reporting: Naphthenic Acids TSCA 8(b)  
inventory: Naphthenic Acids; Stoddard solvent; Copper Naphthenate SARA 313 toxic chemical  
notification and release reporting: Copper Naphthenate 70% CERCLA: Hazardous substances.:  
Naphthenic Acids: 100 lbs. (45.36 kg);

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:**

**WHMIS (Canada):** CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

**DSCL (EEC):**

**HMIS (U.S.A.):**



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Health Hazard: 1  
Fire Hazard: 2  
Reactivity: 0  
Personal Protection: g

**National Fire Protection Association (U.S.A.):**

Health: 1  
Flammability: 2  
Reactivity: 0  
Specific hazard:

**Protective Equipment:** Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

**16. OTHER INFORMATION**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Alberta Veterinary Laboratory Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Alberta Veterinary Laboratory Ltd. has been advised of the possibility of such damages.

**This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR**

**Revision Date: 2022-03-16**