

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT: Astringent Bolus

FILE NO.:
MSDS DATE:4/10/2018

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Astringent Bolus
SYNONYMS:
PRODUCT CODES:

MANUFACTURER: TBL, INC.
DIVISION:
ADDRESS: PO BOX 7176, Saint Joseph, MO 64507

EMERGENCY (CHEMTREC) PHONE: 1-800-424-9300
NATIONAL POISON RESPONSE CENTER PHONE: 1-800-424-8800
OTHER CALLS: 816-233-5487
FAX PHONE: 816-233-1702

PRODUCT USE: Used for supplemental feeding of domestic animals
PREPARED BY:

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

The hazard communication standard requires that such mixtures be assumed to present the same health hazard as do components that constitute at least 1% of the mixture (0.1% for carcinogens) although OSHA has noted that the hazards of individual components may be altered by including them in a mixture. Some of the ingredients in this mixture are a trade secret.

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Copper Sulfate	7758-99-8	<20
Ferrous Sulfate Monohydrate	7720-78-7	<20

OSHA PEL-TWA: None
OSHA PEL STEL : None
OSHA PEL CEILING: None

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY: Ingestion, inhalation

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation and burning

SKIN: May cause skin irritation

INGESTION: Not hazardous in normal usage quantities

INHALATION: Dust may cause irritation to the respiratory tract

ACUTE HEALTH HAZARDS: None

CHRONIC HEALTH HAZARDS: None

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Allergic reactions may occur

CARCINOGENICITY
OSHA: N/A

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ACGIH: N/A
NTP: N/A
IARC: N/A
OTHER: N/A

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SECTION 3 NOTES: Extremely small quantities of chemical mixtures may be contained in this product that have carcinogenicity registrations

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush with copious amounts of water holding eye lids apart. Seek medical attention.

SKIN: Wash skin thoroughly with soap and water after handling. Remove and launder contaminated clothing before reuse. Seek medical attention if irritation persists

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously but do not induce. Never give anything by mouth to an unconscious person. Seek medical attention.

INHALATION: Remove from exposure to fresh air immediately. Aid in breathing if necessary. If breathing is difficult give oxygen. Seek medical aid.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically and supportively

SECTION 4 NOTES: This mixture has not been tested as a whole. Components whose effects contribute to the classification are stated herein.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER:
(% BY VOLUME) **LOWER:**

FLASH POINT:

F:

C: N/A

METHOD USED:

AUTOIGNITION TEMPERATURE:

F:

C: N/A

NFPA HAZARD CLASSIFICATION

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0
EXTINGUISHING: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 2
FLAMMABILITY: 1
REACTIVITY: 1
PROTECTION: 0

EXTINGUISHING MEDIA: Carbon Dioxide, Water, Dry Chemical, or Alcohol Foam as appropriate to control surrounding fire

SPECIAL FIRE FIGHTING PROCEDURES: As with all fires, evacuate personnel to safe area. Fire fighters should use self-contained Breathing equipment and protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Copper, iron, calcium, and Sulfur, Carbon Monoxide, irritating and toxic fumes and gasses, Carbon Dioxide, Nitrogen

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES:

Clean up spills immediately, observing precautions in sections 3 and 4. Sweep up and contain material and place in a suitable clean closed container for disposal. Use local exhaust to control vapors, dusts and mists. Ensure adequate ventilation. Evacuate personnel to safe areas.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry place. Keep container tightly closed.

OTHER PRECAUTIONS: Practice good industrial hygiene when handling this product. Avoid inhalation of dusts, vapors and mists.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Recommended

VENTILATION : Provide fresh air

RESPIRATORY PROTECTION: NIOSH/OSHA approved dust/mist respirator is recommended when breathable dusts are present

EYE PROTECTION: Safety glasses with side shields as necessary

SKIN PROTECTION: As necessary to protect skin from irritation/abrasion

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: As needed

WORK HYGIENIC PRACTICES: Wear gloves before handling. Wash hands thoroughly before and after handling

EXPOSURE GUIDELINES: N/A

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Brownish Red/Blue Speckled Bolus

ODOR: none

PHYSICAL STATE: Elongated, hard, capsule shaped tablet

BOILING POINT:

F:
C: N/A

MELTING POINT:

F:
C: N/A

FREEZING POINT:

F:
C: N/A

VAPOR PRESSURE (mmHg):

@

F:
C: N/A

VAPOR DENSITY (AIR = 1):

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@
F:
C: N/A
SPECIFIC GRAVITY (H2O = 1):
@

F:
C: N/A
EVAPORATION RATE:

BASIS (=1): N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: Mostly soluble in water

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE:
BY WT/ BY VOL @

F:
C: N/A
VOLATILE ORGANIC COMPOUNDS (VOC):

WITH WATER: N/A LBS/GAL
WITHOUT WATER: N/A LBS/GAL

MOLECULAR WEIGHT:
VISCOSITY: Solid at normal temperatures

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

	STABLE	UNSTABLE
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STABILITY: X

CONDITIONS TO AVOID (STABILITY): None Known

INCOMPATIBILITY (MATERIAL TO AVOID): Strong Oxidizers, Powdered Metals, Acids, Alkalis, Iron, Magnesium, Phospahtes, Acetylene, Hydrazine, Zirconium

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None at normal temperatures

HAZARDOUS POLYMERIZATION: None Known

CONDITIONS TO AVOID (POLYMERIZATION): None Known

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Non-toxic in normal conditions and usage ammounts

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: May be toxic to aquatic life. Release into the environment should be avoided.

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SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL CONSIDERATIONS: May be toxic to aquatic life. Release into the environment should be avoided.

RCRA HAZARD CLASS: Not Regulated

SECTION 13 NOTES:

SECTION 14: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): None have been SNUR under TSCA, some ingredients are listed in the TSCA inventory

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): None have an RQ, TPO or are reportable under section 313

STATE REGULATIONS: N/A

INTERNATIONAL REGULATIONS: N/A

SECTION 15 NOTES:

SECTION 15: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION:

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