31 Incorporated P.O. Box 278 Newcomerstown, OH 43832 USA (740) 498-8324

MATERIAL SAFETY DATA SHEET

24 Hour Emergency Service: CHEM•TEL INC. (800) 255-3924

I. IDENTIFICATION

NAPA #765-1685

PRODUCT NAME: Vulcanizing Cement

CHEMICAL NAME: Cement Blend CHEMICAL FAMILY: Halogenated Hydrocarbons & Rubber

FORMULA: 1.1.2 Tri & Natural Rubber MOLECULAR WEIGHT: .11

SYNONYMS: Triclene

DEPARTMENT OF: N/A HAZARD CLASSIFICATION NOS. ORM-A

TRANSPORTATION: N/A SHIPPING NAME: ORM-A CAS#: N/A CAS NAME: N/A

II. PHYSICAL DATA

BOILING POINT: 760 mm hg 87° C FREEZING POINT: -86.4° C SPECIFIC GRAVITY: 1.45 VAPOR PRESSURE AT 20° C.: 25

VAPOR DENSITY: Air 4.54 EVAPORATION RATE: .30

PERCENT VOLATILES BY VOLUME: 100 SOLUBILITY IN WATER (% BY WEIGHT):

APPEARANCE AND ODOR: Cloudy sweet odor

III. INGREDIENTS

MATERIAL	%	TLV UNITS	HAZARD	CAS#
Trichlorethylene	85-90	200 PPM 15 MID	2	79-01-6
Uncored Natural Rubber	10-12		0	N/A
Zinc Isopropyl Xanthate	.005	N/A	Moderate Toxic	42590-53-4

IV. FIRE AND EXPOSURE HAZARD DATA

FLASH POINT (TEST METHODS): None

FLAMMABLE LIMITS IN AIR (% BY VOLUME): LOWER: 8% : UPPER: 10.5%

EXTINGUISHING MEDIA: CO2, Dry Chemicals, Water Spray

SPECIAL FIRE FIGHTING PROCEDURES:

Self-Contained Protection

UNUSUAL FIRE & HAZARD EXPLOSION HAZARDS:

Non-Flammable and Non-Explosive under normal conditions. Product gives off hydrochloric acid gas plus other toxic and irritating gases.

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V. HEALTH HAZARD DATA

EXPOSURE LIMITS TLV, PEL, AND SOURCE: 50 ppm 8hr. twa 200 ppm 15 minute stel ACUTE EFFECTS OF OVEREXPOSURE:

SWALLOWING: If conscious, drink several glasses of water. DO NOT induce vomiting. Never

give anything by mouth to an unsonscious person. Seek medical

attention immediately.

SKIN ABSORPTION: May be absorbed through skin. Not expected to produce toxicity.

INHALATION: Get person out of area. Administer oxygen. Seek medical attention.

SKIN CONTACT: Wash with soap and water. Apply ointment. Discard clothing

EYE CONTACT: Flush with plenty of water for at least 15 minutes. Seek medical

attention.

CHRONIC EFFECTS OF OVEREXPOSURE: Dizziness, loss of consciousness. May result in death. OTHER HEALTH HAZARDS: Causes irritation (eyes, skin, respiratory tract). May be fatal if swallowed.

EMERGENCY & FIRST AID PROCEDURES

SWALLOWING: Drink plenty of water. DO NOT induce vomiting

SKIN: Wash contaminated area with soap and water. Discard clothing.

INHALATION: Get person in open area. Give oxygen if available.

EYES: Flush with water. Seek medical attention.

PRIMARY ROUTE OF ENTRY: Skin absorption. Ingestion possible.

NOTE TO PHYSICIAN: CAUTION: Epinephrine or other stimulant may cause ventricular arrhythmia due to potentiation of endogenous epinephrine. Ethyl alcohol markedly augments the health effect of the individual. Alcohol consumed before or after exposure may increase adverse reactions.

VI. REACTIVITY DATA

STABILITY

UNSTABLE: STABLE: X CONDITIONS TO AVOID: Aluminizing or their alloys. Strong

alkalies.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contacting with strong alkalies HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: High temperatures

HAZARDOUS POLYMERIZATION

MAY OCCUR: WILL NOT OCCUR: CONDITIONS TO AVOID:

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Stop leak, contain large vacuum, other absorbant material. Dispose properly

WASTE DISPOSAL METHOD: Dispose of according to federal, state, and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH / MSHA

VENTILATION: Well ventilated area

PROTECTIVE GLOVES: imperivous EYE PROTECTION: Splash goggles

OTHER PROTECTIVE EQUIPMENT: Standard work clothes

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IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Cool, dry, well ventilated area

OTHER PRECAUTIONS:

X. CARCINOGEN EVALUATION

N/A

XI. MSDS PREPARATION INFORMATION

THIS MSDS WAS PREPARED BY:

Charles Muhs
Technical Advisor / 31 Inc.
100 Enterprise Drive
Newcomerstown, OH 43832

THIS MSDS WAS LAST UPDATED ON: (DATE) April 6, 2000

XII. HMIS RATING

HEALTH: FLAMMABILITY: REACTIVITY: PERSONAL PROTECTIVE EQUIP.: 2 1 0 2

Components
Trichloroethylene 85%
Uncrured Natural Rubber 10%
Zinc Isopropyl Xanthate .045%
Rosin Ester .005%

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