M A T E R I A L S A F E T Y D A T A S H E E T

I. IDENTIFICATION

MANUFACTURED BY: Diamond Vogel Paint
1020 Albany Place SE
Orange City, IA 51041

24 Hour Emergency Telephone
CHEMTREC 1-800-424-9300

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General Information:
Mon-Fri 8 AM - 5 PM
712-737-4993

PRODUCT LINE: V-Tech 500 HB Epoxy White Prm L/F (Pt A)

LF-0250 V-Tech 500 Hi-Build Epoxy Gray Primer L/F (Pt.A)
LF-1250 V-Tech 500 Hi-Build Epoxy White Primer L/F (Pt.A)
LF-5252 V-Tech 500 Hi-Build Epoxy Red Primer L/F (Pt.A)

II. HAZARDOUS INGREDIENTS

CAS #25068-38-6 Bis A,Epichlorohydrin Epoxy WT %: 20-50
ACGIH TLV: NE ACGIH STEL: NE
OSHA PEL: NE OSHA CEILING: NE OSHA PEAK: NE
VAPOR PRESSURE: .02mmHg@20C LEL%: NA

CAS #14808-60-7 Crystalline Silica WT %: 5-20 Footnote: (2)
ACGIH TLV: 0.025 mg/m3 ACGIH STEL: NE
OSHA PEL: 10/(%SiO2+2) mg/m3 OSHA CEILING: NE OSHA PEAK: NE
VAPOR PRESSURE: NA LEL%: NA

CAS #108-10-1 Methyl Isobutyl Ketone WT %: 5-20 Footnote: (1)
ACGIH TLV: 50 ppm TWA ACGIH STEL: 75 ppm
OSHA PEL: 100 ppm TWA OSHA CEILING: OSHA PEAK:
VAPOR PRESSURE: 15mm Hg20C LEL%: 1.2

CAS #1330-20-7 Xylene WT %: 5-20 Footnote: (1)
ACGIH TLV: 100 ppm ACGIH STEL: 150 ppm
OSHA PEL: 100 ppm OSHA CEILING: NE OSHA PEAK: NE
VAPOR PRESSURE: 7 mmHg@20C LEL%: 1

CAS #68515-49-1 Diisodecyl Phthalate WT %: 1-5
ACGIH TLV: NE ACGIH STEL: NE
OSHA PEL: NE OSHA CEILING: NE OSHA PEAK: NE
VAPOR PRESSURE: .0 mmHg@68F LEL%: 0.3

CAS #100-41-4 Ethyl Benzene WT %: 1-5 Footnote: (3)
ACGIH TLV: 100 ppm ACGIH STEL: 125 ppm
OSHA PEL: 100 ppm OSHA CEILING: NE OSHA PEAK: NE
VAPOR PRESSURE: 10 mmHg@20C LEL%: 1

WARNING MESSAGES:
(1) Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Chronic exposure may cause damage to the central nervous system, respiratory system, lung, eye, skin, liver, gastrointestinal tract, spleen, kidneys, and blood.
(2) International Agency for Research on Cancer (IARC) Monograph Volume 68 (1997) concludes that Crystalline Silica is "carcinogenic to humans (Group 1)" based on sufficient evidence in humans and experimental animals.
(3) International Agency for Research on Cancer (IARC) Monograph Volume 77 (2000) concluded that Ethylbenzene is "possibly carcinogenic to humans (Group 2B)" based on inadequate

evidence in humans and sufficient evidence in experimental animals.
(4) See Section IX for reportable Hazardous Air Pollutants.

III. PHYSICAL DATA

BOILING RANGE: 237-293° F

EVAPORATION RATE: * slower than ether *

PERCENT VOLATILE BY VOLUME: 39.40-39.97% WEIGHT PER GALLON: 11.23-11.46 LBS

VAPOR DENSITY: * heavier than air *

ACTUAL VOC (lb/gal): 2.70-2.74
EPA VOC (lb/gal): 2.71-2.74 EPA VOC (g/L): 324.77-328.36

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 16° C 60° F LEL: Refer to Section II

FLAMMABILITY CLASSIFICATION: CLASS 1B

HAZARD CLASSIFICATION: *Flammable Liquid

EXTINGUISHING MEDIA: Use water spray, dry chemical, foam, or Carbon Dioxide. Use water spray to cool fire-exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: keep away from heat, sparks, and flame.

SPECIAL FIRE FIGHTING PROCEDURES:
In case of fire and/or explosion do not breathe fumes. Use water spray to reduce vapors. If water pollution occurs, notify appropriate authorities. Wear NIOSH approved self-contained breathing apparatus with independent air supply. Keep containers cool with water spray. Avoid skin contact.

V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section II.

EFFECTS OF OVEREXPOSURE:
Acute- High vapor concentrations are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.
Chronic- Xylene contains ethylbenzene which has been classified as a possible carcinogen to humans, Group 2B, by the International

Agency for Research on Cancer (IARC), based on sufficient evidence in laboratory animals but inadequate evidence for cancer in humans. Prolonged or repeated overexposure to ethylbenzene may cause the following: kidney effects, liver effects, lung effects, thyroid effects, testicular effects, pituitary effects.
This product contains crystalline silica which may cause delayed respiratory diseasse (silicosis) if inhaled over a prolonged period of time. Avoid breathing dust. Use a NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Eye disease, Skin disorders and Allergies

PRIMARY ROUTE(S) OF ENTRY: Ingestion, Skin Absorption, Inhalation

EMERGENCY AND FIRST AID PROCEDURES:
INHALATION: Remove to fresh air. Restore breathing. Treat symptomatically. Consult a physician.
EYES: Flush immediately with large amounts of water for at least 15 minutes. Talk to a physician for medical treatment.
SKIN: Wipe off with towel. Wash with soap and water. Remove contaminated clothing.
INGESTION: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by a medical personnel. Never give anything by mouth to an unconscious person.

VI. REACTIVITY DATA

STABILITY: *stable* HAZARDOUS POLYMERIZATION: *will not occur*

INCOMPATIBILITY: Strong oxidizing agents, strong reducing agents, strong acids, strong alkalis

HAZARDOUS DECOMPOSITION PRODUCTS: Fire, burning and welding may generate carbon monoxide, aldehydes, acids and other organic substances.
CONDITIONS TO AVOID: Avoid acid contamination and skin contact. Keep containers tightly closed. No smoking or eating in handling area.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. Use non-sparking tools. Remove with inert absorbant.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: In confined areas of poor ventilation, use chemical cartridge respirator or self-contained breathing apparatus.

VENTILATION: Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV and LEL of most hazardous ingredient in Section II, below acceptable limit.

PROTECTIVE GLOVES: Impermeable gloves to prevent skin contact.

EYE PROTECTION:
Splash proof eye goggles. In emergency situations, use eye goggles with a full face shield.

OTHER PROTECTIVE EQUIPMENT:
Wear suitable clothing. Long sleeved clothing.

HYGIENIC PRACTICES: See Section V

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store near heat, sparks, flame, strong oxidizing agents or strong acids

OTHER PRECAUTIONS: Eye wash station and safety shower should be available

LIST OF HAZARDOUS AIR POLLUTANTS SUBJECT TO THE PROVISIONS OF THE CLEAN AIR ACT, TITLE I SECTION 112 'National Emission Standards for Hazardous Air Pollutants':

Ingredient	CAS #	Wt% of HAPS in product	Pounds HAPS/ Gal product
Methyl Isobutyl Ketone	108-10-1	15.6 %	1.8
Xylene	1330-20-7	6.3 %	0.7
Ethyl Benzene	100-41-4	1.6 %	0.2