

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

PRODUCT NAME: METALAST WATERBORNE METAL PRIMER                   HMIS   H F R P  
PRODUCT CODE: 91 62    CODES: 1 1 0 G

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: Vanex, Inc.                   NAME OF PREPARER : Tammy Maynor  
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INFORMATION PHONE     : 800-851-7390            FORMULA REVISED    : 05/03/01

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS CAS NUMBER	VAPOR PRESSURE mm Hg   @   Deg F		WEIGHT PERCENT
IRON OXIDE RED 1332-37-2	0	0	<5%
OSHA TWA: 10 MG/M(3), ACGIH TLV: 5 MG/M(3)			
* ZINC COMPOUNDS	-subject to Sec. 313		
-	0	0	5
* BUTYL CELLOSOLVE	-subject to Sec. 313		
111-76-2	.6	68	4
OSHA PEL: 50 PPM, OSHA TWA: 25 PPM, ACGIH TLV: 25 PPM			
TALC (WITHOUT ASBESTOS) 14807-96-6	0	68	<5%
OSHA PEL: 20 MPPCF			
SYNTHETIC AMORPHOUS SILICA 63231-67-4	0	77	<5%
OSHA PEL: 80 MG/M(3), OSHA TWA: 6 MG/M(3), ACGIH TLV: 10 MG/M(3)			
* DIGLYCOL MONOBUTYL ETHER	-subject to Sec. 313		
112-34-5	.05	77	2
ETHANOL 64-17-5	40	19	<5%
OSHA PEL: 1000 PPM, OSHA TWA: 1000 PPM, ACGIH TLV: 1000 PPM			

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

ADDITIONAL HAZARD WARNINGS:  
Not applicable.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 78 deg F - 446 deg F            SPECIFIC GRAVITY (H2O=1): 1.18  
VAPOR DENSITY: HEAVIER THAN AIR              WEIGHT PER GALLON: 9.83 lb/gl  
COATING V.O.C. (POUNDS): 1.80 lb/gl          COATING V.O.C. (GRAMS): 216 g/l  
EVAPORATION RATE: Slower than ether.        SOLUBILITY IN WATER: Miscible  
APPEARANCE AND ODOR: Waterborne liquid.

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: >200 Deg F                       METHOD USED: CLOSED CUP

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.85           UPPER: 24.6

EXTINGUISHING MEDIA: ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

Wear positive-pressure, self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

No unusual fire or explosion hazards are known for this product. As typical of closed containers containing liquid, they may explode when exposed to extreme heat.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE  
CONDITIONS TO AVOID  
Excessive heat.

INCOMPATIBILITY (MATERIALS TO AVOID)  
Oxidizing material.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS  
Combustion products: carbon dioxide, carbon monoxide.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== SECTION VI - HEALTH HAZARD DATA =====

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INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
Vapors of this material may irritate nose, throat, and respiratory passages. Higher concentrations can induce headache, dizziness, nausea, drowsiness, and shortness of breath. Sneezing and dryness of mucous membranes.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
SKIN CONTACT: May cause slight irritation. Prolonged or repeated exposure can lead to redness, swelling and necrosis.  
EYE CONTACT: This material can induce pain, moderate irritation and moderate transient corneal injury.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
Adverse systemic effects can develop following repeated/prolonged contact with human skin.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE  
Headache, nausea, drowsiness, fatigue. A single dose of this product is moderately toxic by ingestion. May cause irritation of the mouth, pharynx, esophagus and stomach following ingestion.

HEALTH HAZARDS (ACUTE AND CHRONIC)  
Inhalation of high concentrations of vapor can induce anemia, liver and kidney injury and clouding of the cornea.  
The diglycol monobutyl ether contained in this product can have the following effects:  
ACUTE: Repeated ingestion can lead to gastrointestinal disturbances, blood, liver, kidney and spleen injury.

CHRONIC: Animal toxicity testing suggest that this material may be toxic when inhaled or absorbed through the skin in repeated small doses.

CARCINOGENICITY:

NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No  
Not applicable.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Lung diseases. Dermatitis. Individuals with pre-existing liver and kidney disorders should avoid contact with this material.

EMERGENCY AND FIRST AID PROCEDURES

SKIN: Remove contaminated clothing and footwear. Wash material off skin with soap and water. If redness, itching or a burning sensation develops, get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

EYES: Immediately flush with water for at least 15 minutes and have eyes examined and treated by medical personnel.

INGESTION: Give 1 or 2 glasses of water to drink. Induce vomiting. Refer victim to medical personnel.

INHALATION: Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Dike and contain spill with inert materials (sand, clay, earth, etc.). Transfer the liquid to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL METHOD

Dispose of in accordance with all local, state, and federal requirements.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep from freezing. Use only with adequate ventilation. Avoid prolonged breathing of vapor or spray mist. Keep container closed when not in use. Containers of this material may be hazardous when emptied. Since emptied containers retain product residue, all hazard precautions must be observed. KEEP OUT OF REACH OF CHILDREN!

OTHER PRECAUTIONS

Hazardous ingredients notated in Section II as "subject to Sec. 313" are subject to reporting requirements under Section 313 of the Emergency Planning & Community Right-to-Know Act of 1986 and of 40 CFR 372. This information must be included on all MSDS's that are copied and distributed for this product.

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SECTION VIII - CONTROL MEASURES  
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RESPIRATORY PROTECTION

Where adequate ventilation is maintained, the use of respiratory equipment is not necessary. However, if the TLV of the product or any component is exceeded, use a MSHA-NIOSH approved respirator.

VENTILATION

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PROTECTIVE GLOVES

For repeated contact, use impervious gloves.

EYE PROTECTION

Chemical goggles are not required when adequate ventilation is maintained. Use goggles if eye discomfort is experienced.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

To prevent repeated or prolonged skin contact, wear impervious clothing and shoes.

WORK/HYGIENIC PRACTICES

Remove contaminated clothing immediately. Wash skin area with soap and water. Launder clothes before reuse.

===== SECTION IX - DISCLAIMER =====

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originated with Vanex or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.