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43-4554

PAGE: 1

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS

HAZARD RATING 0 - MINIMAL 3 - SERIOUS
1 - SLIGHT 4 - SEVERE
2 - MODERATE * - CHRONIC

HMIS RATING HEALTH - 2 FLAMMABILITY - 3 REACTIVITY - 0

SECTION I

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DATE OF PREPARATION 01/03/00

EMERGENCY TELEPHONE (920) 458-2157

PRODUCT CLASS SURFACE COATING TRADE NAME NEW MILLER BLUE AIR DRY ENAMEL MFG PRODUCT NO. 43-4554

SECTION II - HAZARDOUS INGREDIENTS

Table with columns: NT INGREDIENT, CAS#, ACGIH TLV PPM, ACGIH STEL PPM, OSHA PEL PPM, OSHA CEILING PPM, LEL % VOLUM, VAPOR PRESS mm/Hg, % BY Wght. Rows include Xylene, Ethyl Benzene, Naphtha, Stoddard Solvent, Titanium Dioxide, VM&P Naphtha, Glycol Ether Compd.

C - This toxic chemical is subject to the reporting requirements of both Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372) and the Wisconsin Dept. of Natural Resources Administrative Code Chapter NR445. VHAP = VOLATILE HAZARDOUS AIR POLLUTANT

MP - This constituent chemical is toxic to fish and has been identified as a Marine Pollutant. DO NOT allow this product to be introduced into watersheds or wetlands.

WI - This chemical is subject to reporting procedures outlined in the Wisconsin Department of Natural Resources Administrative Code Chapter NR445.

SECTION III - PHYSICAL DATA

BOILING RANGE 175-453 F VOC KG/KG SOLIDS=1.25 VOC (WITH WATER AND EXEMPT SOLV) = 4.29 LBS/GAL 514 GMS/LITER
VOC (LESS WATER AND EXEMPT SOLV) = 4.29 LBS/GAL 514 GMS/LITER

VAPOR DENSITY EVAPORATION RATE %VOLATILE BY WEIGHT %VOLATILE BY VOLUME WEIGHT PER GALLON SPECIFIC GRAVITY AVG SOLV DENSITY
X HEAVIER LIGHTER THAN AIR FASTER X SLOWER THAN ETHER 55.46 66.21 7.7272 .928 6.47

SECTION IV - FIRE & EXPLOSION HAZARDS

PROPER SHIPPING NAME - PAINT, 3, UN1263, 11 SHIPPING LABEL - FLAMMABLE LIQUID (3) LABEL FLASHPOINT 50 F

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical for small fires. For large fires, use an alcohol-type or multi-purpose foam extinguishing agent. Water may be ineffective to extinguish fires involving this type of product.

UNUSUAL FIRE & EXPLOSION HAZARDS: This material is HIGHLY VOLATILE and readily gives off vapors which may travel along the ground or be moved by ventilation! Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flames. Sealed containers may explode if exposed to extreme heat. Do not apply to hot surfaces. This product may become electrostatically charged during mixing, filtering or pouring. Bond and ground metal containers.

SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition when exposed to extreme heat. Fog nozzles are preferable. Do not use a direct stream of water. Product will float and can be reignited on surface of the water. Self-contained positive pressure breathing apparatus should be worn.

SECTION V - HEALTH HAZARD

EFFECTS OF OVEREXPOSURE: Irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggered gait, confusion, unconsciousness, coma. There is no applicable information available regarding the carcinogen potential for this product as a whole, however any relevant information regarding any ingredient's status as a potential, suspect, or confirmed carcinogen is listed in SECTION V of the MSDS.

Chronic overexposure may damage the liver and/or kidneys, blood cells, cause cardiac sensations, hearing effects, and/or cause birth or fertility defects in lab animals.

Repeated and prolonged exposure to some solvents has been associated with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating & inhaling vapors from this product may be harmful or fatal. Ingestion of alcohol can increase the effects of overexposure from some solvents in this product.

This product contains Titanium Dioxide, which is currently listed by OSHA and ACGIH as a nuisance dust hazard.

Exposure Limits for Titanium Dioxide(dust): (CAS# 13463-67-7) OSHA (PEL): TWA =10 mg/m3 (total dust) 5mg/m3 (respirable) ACGIH(TLV): TWA =10 mg/m3 (total dust).

Prolonged and continuous exposure to excessive concentration of dust of any kind without using a dust mask may have an adverse pulmonary effect on some people. This overexposure may result in coughing, sputum, and reduced lung capacity. Pre-existing asthmatic conditions may worsen. Persons with lung diseases should not work in dusty areas unless a physician certifies their fitness to wear a respirator. See OSHA 1910.134.

Exposure Limits For Inert and Nuisance Dust Particulates Not Otherwise Classified: OSHA (PEL): TWA =15 mg/m3 (total dust) 5 mg/m3 (respirable fraction). ACGIH(TLV): TWA = 10 mg/m3 (total dust).

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting eye, skin and respiratory disorders. Impaired liver, kidney & blood forming organ functions from pre existing disorders may be aggravated by exposure.

ROUTE(S) OF ENTRY: Inhalation, skin contact absorption, eye contact.

INHALATION: May cause slight to moderate respiratory tract irritation accompanied by congestion, headache, weakness, dizziness, drowsiness and/or nausea. FIRST AID: Move person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and get immediate emergency medical assistance.

EYE CONTACT: Liquid, vapor or dust may cause moderate to severe irritation, redness, tearing, blurred vision & pain. Prolonged or chronic overexposure may cause eye damage. FIRST AID: Flush eyes with large amounts of water for at least 15 minutes. Hold eye lids apart to flush the entire contaminated area. Get medical help if irritation persists.

SKIN CONTACT: May cause moderate to severe skin irritation. May cause burning sensations, defatting and/or dermatitis. Chronic overexposure may cause skin cracking and/or eczema. FIRST AID: Remove contaminated clothing and shoes. Wash area with soap and water. Get medical attention as needed.

SKIN ABSORPTION: May be absorbed through skin tissues. Chronic overexposure to the skin without using protective barriers (gloves, aprons, etc.) may cause toxic effects.

INGESTION: Single dose oral toxicity is low. May cause irritation to the gastrointestinal tract. Ingestion may cause nausea, discomfort, diarrhea, dizziness and vomiting. FIRST AID: DO NOT INDUCE VOMITING! Contents of this product pose an inhalation hazard. If aspirated into the lungs, may cause chemical pneumonitis and/or pulmonary edema which can be fatal. Never leave individual unattended, keep head low to prevent aspiration. SEEK IMMEDIATE MEDICAL ATTENTION!

SECTION VI - REACTIVITY DATA

STABILITY: ____UNSTABLE __X__STABLE

INCOMPATIBILITY(materials to avoid): Strong oxidizers. Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, incompletely burned hydrocarbons, and other irritating or toxic vapors.

HAZARDOUS POLYMERIZATION: ____May Occur __X__Will Not Occur

CONDITIONS TO AVOID: Keep away from high heat, flame, spark, or static discharges. If exposed to extreme heat, sealed containers may explode. Container is not a pressure vessel.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition (flames), electrical static or frictional sparks. Provide good ventilation to spill area. Dike spill area and add inert absorbent. Remove spilled material with non-sparking tools. Avoid breathing vapors and use respirator protective devices (SEE SECTION VIII). Only properly trained personnel should clean spilled hazards. Follow local, state and federal spill notification rules.
WASTE DISPOSAL: Incinerate in approved facility. For other disposal methods consult federal, state & local regulations.
Before attempting clean-up refer to HAZARD INFORMATION in other sections of this sheet. Empty containers contain product residue, follow label and MSDS warnings even after container is emptied.

SECTION VIII - SAFE HANDLING & USE INFO

RESPIRATORY PROTECTION: In outdoor or open areas with unrestricted ventilation, use NIOSH approved dust mask to protect from overspray or solid airborne particulates. In restricted areas, use a NIOSH approved combination organic vapor and particulate respirator. In confined areas, use an airline type respirator hood or self contained breathing apparatus. Consult the OSHA confined space regulations.
VENTILATION: Provide sufficient ventilation to keep hazards at levels below current ACGIH TLV and OSHA PEL of the most hazardous ingredient in SECTION II. Solvent vapors must be removed from the lower levels of work areas and all ignition sources eliminated. Remove decomposition products formed by welding or flame cutting coated surfaces. Dust and particle hazards are elevated during sanding, grinding, or surface preparation of previously coated surfaces.
SKIN PROTECTION REQUIREMENTS: Chemical resistant gloves are recommended. Use neoprene, nitrile, or butyl rubber. Cover as much of the exposed skin as possible with appropriate impervious clothing. If skin creams are used, keep the area protected by the cream to a minimum. Do not use skin creams to protect skin when working with acids or acid catalysts.
EYE PROTECTION: Eye protection should be worn in any type of industrial operation. The use of chemical goggles and a full face shield to prevent splash from liquids is recommended. Contact lenses should not be worn.
OTHER PROTECTIVE EQUIPMENT: Use protective apron to prevent clothing contamination. Avoid prolonged skin contact with contaminants if clothes are soiled. Remove and wash all contaminated clothing before re-use. Never wear contaminated clothing away from the workplace. Use protective cream when skin contact is likely.
HYGIENIC PRACTICES: Emergency eye wash stations and safety showers are recommended. Wash hands prior to eating, using the washroom or smoking. Precautions must be taken so that persons handling this product do not breathe the vapors or have it contact the skin or eyes. In spray operations, protection must be afforded against exposure to both vapor and spray mist.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store large quantities in buildings designed and protected for storage of flammable liquids. Reference storage conditions in OSHA 1910.106. Avoid high temperature areas and open flames. Do not store above 120 F. Keep closures tight and container upright to avoid leakage.
OTHER PRECAUTIONS: Maintain a clean work area, remove rags and wastes daily. Store waste in an approved container.
CAUTION! DO NOT TAKE INTERNALLY. Avoid breathing vapor/dust.
NOTICE: The HMIS rating for this material involves data and interpretations compiled from the various material suppliers of the component ingredients. This information will vary from supplier to supplier. The rating is intended for rapid and general identification of this product's hazards. To adequately deal with the safe handling of this material, all information contained in the MSDS must be reviewed as part of an ongoing Hazard Communication Program.
SARA Title III: This product is regulated under Section 311- 312 (40CFR370): Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard.
This product complies with the Toxic Substances Control Act (TSCA) 40 CFR 700-799. The Material Safety Data Sheet (MSDS) complies with 29 CFR 1910.1200, Hazardous Communication Std.
WARNING! Sudden release of hot vapors or sudden introduction to vacuum conditions may cause ignition of vapors.
REGULATORY INFORMATION: This product contains a Marine Pollutant. Do not allow this product to be spilled into or near watersheds or bodies of water.
This product may contain trace amounts of chemicals known in California as carcinogens or reproductive toxins.