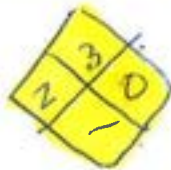


Inti-Shield Primer

MATERIAL SAFETY DATA SHEET
For Coatings, Resins and Related Materials

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HEALTH: 2
06/28/96 FIRE: 3
REACTIVITY: 0



SECTION I - PRODUCT IDENTIFICATION

Manufacturer: TI-KROMATIC PAINTS, INC.
2492 DOSWELL AVENUE

Information Phone: (612) 644-4477
Emergency Phone: (800) 424-9300

ST. PAUL MN 55108

Developed for: DPR INC.

Hazard Ratings: Health - 2

Product Class:

none -> extreme Fire - 3

Trade Name : INFI-SHIELD ADRESIVE PRIMER

0 ---> 4 Reactivity - 0

Product Code : AP-12495

C.A.S. Number:

H.M.I.S.

SECTION II - HAZARDOUS INGREDIENTS

| Ingredients | CAS # | Weight % | Exposure Limits | Vapor Pr. mm hg | SARA 313 |
|--------------------------|----------|----------|-----------------------|-----------------|----------|
| TOLUENE | 108-88-3 | 63. | 50. ppm | 22. | X |
| BUTALATED HYDROXYTOLUENE | 128-37-0 | 9.1 | 10. mg/m ³ | | X |

Definitions NTP (National Toxicology Program)

IARC (International Agency for Research on Cancer)

SECTION III - PHYSICAL DATA

Boiling Range: 232 - 232 Deg. F

Vapor Density: Heavier than Air.

Evap. Rate: 1.74 x n-Butyl Acetate

Liquid Density: Lighter than Water.

Volatiles volume: 66.2 %

Wgt per gallon: 7.59 Pounds.

Appearance: BLACK LIQUID

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class:

Flash Point: 45 F tcc

LEL : 1.2

-EXTINGUISHING MEDIA:

-SPECIAL FIREFIGHTING PROCEDURES:

-UNUSUAL FIRE & EXPLOSION HAZARDS:

SECTION V - HEALTH HAZARD DATA

-PERMISSIBLE EXPOSURE LEVEL:

-EFFECTS OF OVEREXPOSURE:

-FIRST AID:

SECTION VI - REACTIVITY DATA

STABILITY: [] Unstable [x] Stable

HAZARDOUS POLYMERIZATION: [] May occur [x] Will not occur

-INCOMPATABILITY:

-CONDITIONS TO AVOID:

-HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:

Regular foam or carbon dioxide or dry chemical

-SPECIAL FIREFIGHTING PROCEDURES:

Wear self contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.

-UNUSUAL FIRE & EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. NEVER use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

WARNING: Hot organic chemical vapor or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below those published in the literature as "autoignition" or "ignition" temperatures. Ignition temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes.

Ignition may occur at typical elevated-temperature process conditions, especially in processes operating under vacuum if subjected to sudden ingress of air, or outside process equipment operating under elevated pressure if sudden escape of vapors or mists to the atmosphere occurs. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

SECTION V - HEALTH HAZARD DATA

-PERMISSIBLE EXPOSURE LEVEL:

(SEE SECTION II)

-EFFECTS OF OVEREXPOSURE:

EYES- can cause severe irritation, redness, tearing, blurring of vision.

SKIN- prolonged or repeated contact can cause moderate irritation, defatting or dermatitis.

BREATHING- excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

SWALLOWING- can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

-FIRST AID:

IF ON SKIN: Thoroughly wash exposed area with gritty soap and water. Do not allow paint to dry on skin before washing. Remove contaminated clothing. Launder contaminated clothing before re-use.

IF IN EYES: Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.

IF SWALLOWED: Do not induce vomiting. Keep person warm and quiet and get medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

IF BREATHED: If affected, remove individual to fresh air. If breathing has stopped, get immediate medical help and (cont.)

SECTION V - HEALTH HAZARD DATA (cont.)

-FIRST AID: (cont.)

apply artificial respiration until it arrives. Keep person warm, quiet.

SECTION VI - REACTIVITY DATA

STABILITY: [] Unstable [x] Stable

HAZARDOUS POLYMERIZATION: [] May occur [x] Will not occur

-INCOMPATIBILITY:

Avoid contact with: strong oxidizing agents e.g. nitric acid, permanganates, etc.)

-CONDITIONS TO AVOID:

Keep away from strong oxidizing agents, heat, sparks, flame.

-HAZARDOUS DECOMPOSITION PRODUCTS:

NONE

SECTION VII - SPILL OR LEAK PROCEDURES

-STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to hood.

LARGE SPILL: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from the area of the spill until clean up has been completed. Stop spill tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shovelled into container. Prevent run-off to sewers, streams, or other bodies of water.

-WASTE DISPOSAL METHOD:

SMALL SPILL: Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Destroy remaining material by burning in an iron pan. Material should be disposed of in accordance with local, state, and federal regulations.

LARGE SPILL: Destroy by liquid incineration. Material collected on absorbent material may deposited in a posted toxic substance landfill in accordance with local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION:

-RESPIRATORY PROTECTION:

if the T.L.V. of the product or any component is exceeded, a NIOSH/MESA jointly approved self contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode is advised; however, OSHA regulations also permit other NIOSH/MESA respirators under specified conditions. (see your safety equipment supplier)

SECTION VIII - SPECIAL PROTECTION INFORMATION: (cont.)

-VENTILATION:

Provide sufficient mechanical (general) and/or local exhaust ventilation to maintain exposure below T.L.V.(s)

-PROTECTIVE GLOVES:

wear resistant gloves such as: BUNA-N

-EYE PROTECTION:

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (See your safety equipment supplier.)

-OTHER PROTECTIVE EQUIPMENT:

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

SECTION IX - SPECIAL PRECAUTIONS

-PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this data sheet must be observed.

-OTHER PRECAUTIONS:

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with Ti-Kromatic Paints, Inc. or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstance.