

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION OF PRODUCT

MANUFACTURER'S NAME & ADDRESS

Paul M. Wolff Co., Inc.
460 North Geneva Road
Lindon, UT 84042

PRODUCT CLASS

Water based acrylic polymer coating

PRODUCT NAME

Thermosheen

DATE OF PREPARATION

01/11/90

EMERGENCY TELEPHONE NUMBER

(877) 974-0630

HAZARD RATING:

4 = EXTREME 1 = SLIGHT
3 = HIGH 0 = SIGNIFICANT
2 = MODERATE * = SEE SECTION IV

TOXICITY: 1

FIRE: 0

REACTIVITY: 0

SPECIAL: B

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY - COMMON NAME(S):

ETHYLENE GLYCOL

CAS NUMBER: 107-21-1

OSHA PEL: 50 ppm

ACGIH TLV: 50 ppm

OTHER LIMITS RECOMMENDED: NONE

% (OPTIONAL): 1.5

DIETHYLENE GLYCOL MONOETHYL ETHER, DOWANO DE

CAS NUMBER: 11-90-0

OSHA PEL: NONE ESTABLISHED

ACGIH TLV: NONE ESTABLISHED

OTHER LIMITS RECOMMENDED: NONE

% (OPTIONAL): 5.00

PHTHALIC ACID, DIBUTYL ESTER; DIBUTYL PHTHALATE

CAS NUMBER: 84-74-2

OSHA PEL: 3 MG/M3

ACGIH TLV: 50PPM

OTHER LIMITS RECOMMENDED: NONE

% (OPTIONAL): 2.6

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: APPX. 212°F

SPECIFIC GRAVITY: (H2O = 1): 1.02

VAPOR PRESSURE - (MM HG.): WATER 77 F 24 MM HG

MELTING POINT - N/A

VAPOR DENSITY - (AIR = 1): <1 AND >1

EVAPORATION RATE

IN WATER: EMULSIFIES

(BUTYL ACETATE = 1): EQUAL TO PH @ 77 F: 7.0 - 8.0

APPEARANCE: WHITE, SEMI-TRANSLUCENT EMULSION

ODOR: ACRYLIC

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): NONE TO BOILING POINT. TCC
FLAMMABLE LIMITS: N/A/LEL: N/A UEL: N/A
EXTINGUISHING MEDIA: ANY APPROPRIATE MEDIUM FOR EXTINGUISHING SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES: USE WATER SPRAY TO COOL NEARBY CONTAINERS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIAL CAN SPATTER ABOVE 100C/212F. DRIED POLYMER WILL BURN.

SECTION V - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION? EYES? SKIN? INGESTION? X

(ACUTE) HEALTH HAZARDS:

EYES: CONTACT WITH EYES MAY CAUSE EYE IRRITATION.

SKIN: REPEATED OR PROLONGED CONTACT MAY CAUSE SKIN IRRITATION.

INGESTION: SWALLOWING MAY CAUSE IRRITATION TO THE THROAT, MOUTH, AND DIGESTIVE TRACT ACCOMPANIED BY NAUSEA AND VOMITING.

INHALATION: VAPOR OR MIST MAY CAUSE HEADACHE, NAUSEA, AND IRRITATION OF THE NOSE AND THROAT.

(CHRONIC) HEALTH HAZARDS:

ND

SECTION V - HEALTH HAZARD DATA CONTINUED

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH EYES WITH LARGE AMOUNTS OF WATER. IF IRRITATION OCCURS, OBTAIN MEDICAL ASSISTANCE.

SKIN: WASH THOROUGHLY WITH WATER. IF IRRITATION OCCURS, OBTAIN MEDICAL ATTENTION.

INGESTION: GIVE TWO GLASSES OF WATER. INDUCE VOMITING IF IT HAS NOT OCCURRED. NEVER GIVE WATER TO AN UNCONSCIOUS PERSON. OBTAIN MEDICAL ASSISTANCE,

INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ASSISTANCE IF RESPIRATORY IRRITATION OCCURS OR BREATHING BECOMES DIFFICULT.

SECTION VI - TOXICITY DATA

CARCINOGENICITY: NTP: NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

ORAL: DOWANOL DE: RAT LD 50 = 6500 MG/KG
ETHYLENEGLYCOL RAT LD50 = 4000 MG/KG

DERMAL: DOWANOL DE RABBIT LD50 = 4000 MG/KG
ETHYLENEGLYCOL HUMAN LDLO = 710 MG/KG

INHALATION: ND
ETHYLENEGLYCOL HUMAN LCLO = 10000 MG/M3

SECTION VII - REACTIVITY DATA

STABILITY

UNSTABLE: CONDITIONS TO AVOID: DECOMPOSES AT 350 F
STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): N/A

HAZARDS DECOMPOSITION OR BYPRODUCTS: OXIDES OF CARBON

HAZARDOUS POLYMERIZATION MAY OCCUR:
WILL NOT OCCUR: X
CONDITIONS TO AVOID: NONE KNOWN

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

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

KEEP SPECTATORS AWAY. FLOOR MAY BE SLIPPERY; USE CARE TO AVOID FALLING. DIKE AND CONTAIN SPILL WITH INERT MATERIAL. TRANSFER LIQUID TO CONTAINERS FOR RECOVERY TO DISPOSAL AND SOLID DIKING MATERIAL TO SEPARATE CONTAINERS FOR DISPOSAL. KEEP SPILLS AND CLEANING RUN-OFFS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER.

WASTE DISPOSAL METHOD:

COAGULATE THE EMULSION BY THE STEPWISE ADDITION OF FERRIC CHLORIDE AND LIME. INCINERATE LIQUID AND THE CONTAMINATED DIKING MATERIAL ACCORDING TO THE LOCAL STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

STORE IN A COOL DRY PLACE. KEEP FROM FREEZING. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. FOR INSTITUTIONAL AND INDUSTRIAL USE ONLY.

SECTION IX - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE):

NONE REQUIRED IF GOOD VENTILATION IS MAINTAINED.

VENTILATION: N/A

LOCAL EXHAUST: N/A

MECHANICAL (GENERAL): N/A

SPECIAL: N/A

OTHER: NONE

PROTECTIVE GLOVES: IMPERVIOUS

EYE PROTECTION: FACE SHIELD, SAFETY GLASSES (FOR SPLASHING).

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE

WORK/HYGIENIC PRACTICES:

THE RECOMMENDATIONS DESCRIBED IN THIS MSDS ARE PROVIDED AS GENERAL GUIDANCE FOR MINIMIZING EXPOSURE WHEN HANDLING THIS PRODUCT. BECAUSE USE CONDITIONS WILL VARY DEPENDING UPON CUSTOMER APPLICATIONS, SPECIFIC SAFE HANDLING PROCEDURES SHOULD BE DEVELOPED BY PERSONS KNOWLEDGEABLE OF THE INTENDED USE CONDITIONS AND EQUIPMENT.

SECTION X - DOT HAZARDOUS INFORMATION

UN/NA: N/A

CLASSIFICATION: NOT REGULATED

PROPER SHIPPING NAME: N/A

PHOTO CHEMICALLY REACTIVE?_NO_ ____%

DOT RQ: 10 POUNDS DIBUTYL PHTHALATE (1540 POUNDS PRODUCT) FROM 1 CONTAINER

V.O.C. = 69 (CALCULATED) GRAMS/LITER OF MATERIAL = 288 GRAMS/LITER OF MATERIAL LESS WATER.

SECTION XI - MISCELLANEOUS INFORMATION

PROPOSITION 65: DETECTABLE AMOUNTS (PPB) OF ETHYLENE OXIDE, CAS NO.75-21-8, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS MAY BE FOUND IN THIS PRODUCT.

SARA TITLE III SECTION 304 & CERCLA: DIBUTYL PHTHLATE RQ = 10 POUNDS (1540 POUNDS OF PRODUCT) FROM ANY NUMBER OF CONTAINERS SPILLED WITHIN 24 HOURS.

SARA TITLE III SECTION 313: USAGE OF 10,000 POUNDS 1 YEAR OF GLYCOL ETHERS FROM ALL SOURCES REQUIRES ANNUAL REPORT.

TSCA: ALL INGREDIENTS REPORTED.

NOTICE

ALL INFORMATION, RECOMMENDATIONS, AND SUGGESTIONS APPEARING HEREIN CONCERNING THIS PRODUCT ARE BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES; HOWEVER, PAUL M. WOLFF CO., INC. MAKES NO WARRANTY, REPRESENTATION OR GUARANTY AS TO THE ACCURACY, SUFFICIENCY OR COMPLETENESS OF THE MATERIAL SET FORTH HEREIN. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY OF HIS OWN USE, HANDLING AND DISPOSAL OF THE PRODUCT. ADDITIONAL PRODUCT LITERATURE MAY BE AVAILABLE UPON REQUEST. SINCE ACTUAL USE BY OTHERS IS BEYOND OUR CONTROL, NO WARRANTY, EXPRESS OF IMPLIED, IS MADE BY PAUL M. WOLFF CO., INC. AS TO THE EFFECTS OF SUCH USE, THE RESULTS TO BE OBTAINED OR THE SAFETY AND TOXICITY OF THE PRODUCT, NOR DOES PAUL M. WOLFF CO., INC. ASSUME ANY LIABILITY ARISING OUT OF USE BY OTHERS OF THE PRODUCT.