

DATE OF PREP
07/07/07

MANUFACTURER

NAME: K. Coatings, LLC
ADDRESS: 32400 AURORA ROAD
CITY-STATE: SOLON OHIO
ZIPCODE: 44139

EMERGENCY TELEPHONE NO.
DAY: 440-248-8288
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SECTION 1 --- PRODUCT

NUMBER: BPXH710
NAME : * **BOILER COAT SILICONE ALKYD Aluminum**
CLASS : SOLVENT BASED-1
UN NUMBER - 1263

H M I S HAZARD CODES
HEALTH: 2 - MODERATE
FLAMMABILITY: 1 - SLIGHT
REACTIVITY: 0 - MINIMAL
PROTECTIVE EQUIPMENT:

SECTION II ---- HAZARDOUS INGREDIENTS

| INGREDIENT | PERCENT | -- C.A.S. -- |
|---------------------------------|---------|--------------|
| MATERIAL DESCRIPTION | BY WGT. | Registry No. |
| Aluminum | 21.16 | 7429905 |
| STODDARD SOLVENT | 18.75 | 8052413 |
| SOLVENT NAPHTHA, LIGHT AROMATIC | 14.42 | 64742956 |
| SOLVENT NAPHTHA | 11.76 | 64742887 |
| 1,2,4 - TRIMETHYLBENZENE | 10.53 | 95636 |
| MESITYLENE | 2.51 | 108678 |
| TOLUENE | .55 | 108883 |
| CUMENE | .42 | 98828 |

SECTION III ---PHYSICAL DATA

BOILING RANGE : 277.°F – 396.°F (136.11°C – 202.22°C)
VAP. PRESSURE : 1. @ 55.°F (12.78°C)
299. @ 689.°F (365.°C)
EVAPORATION RATE : Slower than N-Butyl Acetate
VAPOR DENSITY : HEAVIER THAN AIR
% Volatile by Weight : 59.87%
% Volatile by Volume : 74.87%
SPECIFIC GRAVITY : 0.97381
VOC MAX LBS/GAL & GRMS/LTR: 4.86/583.

SECTION IV --- FIRE AND EXPLOSION HAZARD DATA

OSHA Flammability Class: II
FLASHPOINT : 106.°F (41.11°C)
SETA FLASH
EXPLOSIVE RANGE: 0.8%
12.7%

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG, CARBON DIOXIDE

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep this product away from heat, sparks, flame, and other sources of ignition. Keep containers closed when not in use. Closed containers may burst when exposed to extreme heat or fire. Toxic gases may form when product is exposed to extreme heat. Product may decompose under fire.

SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to cool and protect exposed containers. Use self-contained breathing apparatus. Water may be ineffective in extinguishing a paint fire. Stream of water may spread the flame. If water is used, fog nozzles are preferable.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS: Carbon Monoxide, carbon dioxide, oxides of nitrogen, acrid fumes, phosphorous, oxygen, toxic gases

SECTION V ---- HEALTH HAZARD DATA

INHALATION: If affected, remove to fresh air. If breathing stops, give artificial respiration. Administer oxygen if available. Get immediate medical assistance.

SKIN CONTACT: Flush immediately with plenty of water followed by washing with soap and water. Remove contaminated clothing. Wash contaminated clothing before reuse. If irritation occurs, consult a physician.

EYE CONTACT: Flush immediately with large amounts of water, especially under the lids for at least 15 minutes. If irritation or other effects persist, obtain medical assistance.

INGESTION: If swallowed, **do not induce vomiting**; Drink two glasses of water to dilute. Obtain medical assistance immediately.

PRIMARY ROUTE(S) OF EXPOSURE: Inhalation, skin contact, eye contact, and ingestion. Depending on conditions of use. To minimize exposure, follow recommendations for proper use, Handling, ventilation, and personal protective equipment.

EFFECTS OF OVEREXPOSURE

INHALATION: Irritation of respiratory tract. Prolonged inhalation may lead to loss of appetite, mucous membrane irritation, fatigue, drowsiness, dizziness, and/or lightheadedness, Headache, loss of coordination, nausea, vomiting, chest pain, coughing, nervous system depression, intoxication, confusion, anesthetic effect or narcosis, difficulty of Breathing, allergic response, asthmatic reaction, tremors, severe lung irritation or damage, liver damage, pulmonary edema, convulsions, pneumoconiosis, loss of Consciousness, asphyxiation, death. Possible sensitization to respiratory tract. Sanding dust inhalation may cause lung damage.

SKIN CONTACT: Irritation of skin. Prolonged or repeated contact can cause dermatitis, defatting. Skin contact may result in dermal adsorption of component(s) of this product which May cause drowsiness, dizziness and/or lightheadedness, headache, loss of coordination, nausea, blurred vision, central nervous system depression, confusion, tremors Convulsions.

EYE CONTACT: Irritation of eyes. Prolonged or repeated contact can cause conjunctivitis, blurred vision, tearing of eyes, and redness of eyes.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None generally expected when recommendations for proper use, handling, ventilation, and personal protective equipment are followed.

CONTAINS CARBON BLACK A SUBSTANCE WHICH HAS BEEN CLASSIFIED AS POSSIBLY CARCINOGENIC TO HUMANS BY IARC

SECTION VI --- STABILITY & REACTIVITY DATA

STABILITY: THIS PRODUCT IS STABLE
HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur
MATERIALS TO AVOID: Oxidizers, acids, hypochlorites, mineral acids, nitrates, hydrazine per formic acid bromine pent fluoride, bases.
CONDITIONS TO AVOID: Elevated Temperatures, contact with oxidizing agent, sparks, open flame, ignition sources.

SECTION VII – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all sources of ignition. Ventilate area. Avoid breathing vapors. Use appropriate personal protective equipment. Use self-contained breathing apparatus if Necessary. Contain spill and remove with inert absorbent. Use non-sparking tools. Use proper containers. Prevent material from entering sewers, natural ways, or soil.

WASTE DISPOSAL

Dispose in accordance with all applicable local, county, state, and federal regulations. Do not incinerate closed containers. If necessary, use only a licensed facility/firm.

SECTION VIII ----- EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

| | ACGIH TLV | ACGIH TLV-C | ACGIH STEL | OSHA STEL | OSHA PEL |
|---------------------------------|-------------|-------------|------------|------------|-------------|
| ALUMINUM | 10.00 mg/M3 | N/EST | N/EST | N/EST | 15.00 mg/M3 |
| STODDARD SOLVENT: | 100.00 PPM | N/EST | N/EST | N/EST | 100.00 PPM |
| SOLVENT NAPHTHA, LIGHT AROMATIC | 100.00 PPM | N/EST | N/EST | N/EST | N/EST |
| SOLVENT NAPHTHA | 100.00 PPM | N/EST | N/EST | N/EST | 100.00 PPM |
| 1,2,4 - TRIMETHYLBENZENE | N/EST | N/EST | N/EST | N/EST | N/EST |
| MESITYLENE | N/EST | N/EST | N/EST | N/EST | N/EST |
| TOLUENE | 50.00 PPM | N/EST | N/EST | 150.00 PPM | 100.00 PPM |
| CUMENE | 50.00 PPM | N/EST | N/EST | N/EST | 50.00 PPM |

GENERAL PRECAUTIONS TO BE TAKEN IN USE: Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using. Product may contain substances classified as nuisance particulates that may be hazardous levels only during sanding or abrading of the dried film.

RESPIRATORY PROTECTION: If personal exposure cannot be controlled below applicable limits by ventilation, wear an appropriate properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA (Canadian z94.4). When sanding or abrading a dried film, wear a dust/mist respirator approved by NIOSH/MSHA (Canadian z94.4) for dust, which may be generated from this product, the underlying product, or the abrasive.

VENTILATION: Provide dilution, ventilation, or local exhaust to maintain the level of vapors and dust below the applicable limits. Use only non-sparking explosion proof equipment. Discharge exhaust only in an area away from ignition sources.

PERSONAL PROTECTIVE EQUIPMENT: Splash goggles or safety glasses with side shields, impervious gloves, impervious clothing, and chemical resistant boots for spill clean up.

HYGIENIC PRACTICES: Wash clothing before reuse. Wash hands before eating, smoking, or using washroom.

HMS RATINGS: Ratings are only suggested. The contractor/employer has the ultimate responsibility to evaluate the hazard that this product represents in the environment in which it is used.

RATING SYSTEM: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic Effects

This code is left blank. It should be entered by the contractor/employer who is familiar with the actual conditions under which this product is ultimately used.

SECTION IX ----- HANDLING & STORAGE/ SPECIAL PRECAUTIONS

HANDLING & STORAGE: Store in cool, dry, and well-ventilated area. Keep away from heat, sparks, and open flame. Keep from freezing. Keep containers tightly closed and upright when not in use. Do not puncture or re-use containers. Transfer only to approved containers with complete and appropriate labeling. Containers should be grounded when pouring.

OTHER PRECAUTIONS: Use only with adequate ventilation. Use appropriate respiratory protection. Do not take internally. Keep out of reach of children. Avoid contact with skin and eyes. Avoid breathing vapors, spray mist, or sanding dust. Empty containers may contain hazardous residues. Wash hands thoroughly after handling, especially before eating or smoking.

SECTION X - ADDITIONAL INFORMATION

SARA TITLE III SECTION 313 (40CFR372)

This product contains a substance (s) that may be subject to the reporting requirements.

Ingredient Name

| <u>Ingredient Name</u> | <u>CAS Number</u> | <u>Weight %</u> |
|--------------------------|-------------------|-----------------|
| Aluminum | 7429905 | 21.16 |
| 1,2,4 - TRIMETHYLBENZENE | 95636 | 4.22 |
| TOLUENE | 108883 | .55 |
| CUMENE | 98828 | 0.16 |

CALIFORNIA PROPOSITION 65:

This product contains a substance (s) known to the state of California to cause cancer and adverse reproductive toxicity

Ingredient Name

| <u>Ingredient Name</u> | <u>CAS Number</u> | <u>Weight %</u> |
|------------------------|-------------------|-----------------|
| TOLUENE | 108883 | .55 |
| CUMENE | 98828 | 0.16 |

CEPA: All substances in this product are on the Canadian Domestic Substance List.

As of the date of this MSDS, all of the components in this product are listed (or otherwise exempt from listing) on the TSCA inventory. This MSDS complies with OSHA hazard communication standard 29 CFR 1910.1200.

The above information pertains to the products as currently formulated and is based on the information received from raw material suppliers and other sources. We believe, to the best of our knowledge, information, and belief, the information contained herein to be accurate and reliable as of the date of the Material Safety Data Sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the user's consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

SARA Title III - Section 304 CERCLA (40CFR302.4) :

This product contains a substance (s) subject to release notification.