

800-537-8530

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DATE PRINTED: 09/24/1998

PRODUCT NAME: URETHANE ALUMINUM PRIMER
 PRODUCT CODE: 07-440-PP

TO HANDLE 2-3 TOUCH
 6-8 HOURS

REVISION DATE: 09/24/98

HMIS: HEALTH: 3 * , FIRE: 3 , REACTIVITY: 1 , PERSONAL PROTECTION:

4 = EXTREME, 3 = HIGH, 2 = MODERATE, 1 = SLIGHT, 0 = INSIGNIFICANT, * = CHRONIC

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

MANUFACTURER'S NAME: Columbia Paint & Coatings
 ADDRESS : N112 Haven, P.O. Box 4569
 Spokane, WA 99202-4569

24 HOUR EMERGENCY PHONE NO: 800-424-9300
 INFORMATION PHONE NO : 509-535-6311

NAME OF PREPARER : Bill Heiber

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

REPORTABLE COMPONENTS	EXPOSURE LIMITS (TLV, PEL)	CAS NUMBER	WEIGHT PERCENT	VAPOR PRESSURE mm Hg @ TEMP (F)	
Petroleum Distillate	ACGIH: 100 ppm (525 mg/m3) TWA OSHA: 100 ppm (400 mg/m3) TWA	8052-41-3	28.88	2	68
Aluminum Metal	ACGIH: 10 mg/m3 TWA OSHA: 5 mg/m3 TWA	7429-90-5	15.07	NA	NA
* Diphenylmethane-4,4'-Diisocyanate (MDI)	ACGIH: 0.005 ppm (0.051 mg/m3) TWA OSHA: ceiling: 0.02 ppm (0.2 mg/m3) TWA	101-68-8	10.60	0.001	104
* Toluene	ACGIH: skin: 50 ppm TWA OSHA: 200 ppm TWA; 300 ppm ceiling; 500 ppm for 10 minutes	108-88-3	4.85	22	68

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Emergency and Community Right-to-Know Act of 1986 and of 40 CFR 372.

This product contains hazardous components which may become airborne and result in exposure when removed by abrasive blasting, sanding, or grinding. Ventilate and avoid breathing dust.

This product contains materials listed as hazardous air pollutants.

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

BOILING RANGE (F): 226 - 680
 SPECIFIC GRAVITY (H2O=1): 1.10 POUNDS PER GALLON: 9.16 lb/gl
 % VOLATILE BY WT: 33.95% % VOLATILE BY VOL: 44.93%
 VAPOR DENSITY: Heavier than air.

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HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Fumes produced when heated to decomposition, such as in welding, may include one or more of the following: Carbon dioxide. Carbon monoxide. Oxides of nitrogen.

Acrolein.

Isocyanate monomer. Traces of hydrogen cyanide.

Aluminum oxide. Aluminum nitride.

HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION VI - HEALTH HAZARD DATA =====

PRIMARY ROUTES OF EXPOSURE: Dermal: X Inhalation: X Ingestion:

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Overexposure via inhalation may cause central nervous system depression with symptoms ranging from headaches, dizziness, loss of coordination, to unconsciousness.

Deliberately breathing concentrated solvent vapor (glue sniffing) may result in permanent brain and nervous system damage or death.

Isocyanate overexposure may irritate mucous membranes of the respiratory tract causing runny nose, dryness of throat, coughing, tightness in chest, labored breathing, or burning sensation. Extensive exposures to isocyanate levels above TLV could lead to bronchitis, bronchial spasm, and pulmonary edema.

May cause respiratory irritation.

Isocyanates can cause lung sensitization. An allergic respiratory reaction including chest tightness, respiratory distress, or asthma attack may occur in sensitized individuals when exposed to the isocyanate below the TLV. Isocyanates can cause lung injury. Repeated overexposure to solvent vapors may result in damage to one or more of the following: central nervous system, blood, liver, kidney, and/or hearing.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated skin contact may dry and defat the skin leading to irritation and/or dermatitis.

Eye contact may cause eye severe irritation, redness, tearing, blurred vision, and/or possible corneal injury.

Prolonged or repeated contact with the skin can produce skin sensitization in some individuals resulting in allergic dermatitis which may include itching, rash, hives, and swelling of extremities.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

No acute effects known at this time.

No chronic effects known at this time.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Harmful or fatal if swallowed.

Ingestion may result in gastrointestinal irritation, nausea, vomiting, and/or diarrhea.

No chronic effects known at this time.

OTHER HEALTH HAZARDS (ACUTE AND CHRONIC)

Contains sensitizing material which may cause allergic and/or respiratory reaction.

No other chronic effects known at this time.

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CARCINOGENICITY: CONTAINS CARCINOGENS: None known.

OSHA REGULATED: Yes

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Pre-existing disorders, chronic respiratory diseases.

Asthmatic type conditions, chronic bronchitis, other chronic respiratory diseases, diagnosed isocyanate sensitivity, recurrent skin eczema, and/or sensitization.

EMERGENCY AND FIRST AID PROCEDURES

If overcome by vapor, remove from exposure immediately; call a physician. If breathing is irregular or stopped, start resuscitation; administer oxygen.

If ingested, do NOT induce vomiting; call a physician.

If splashed into the eyes, flush eyes with clear water for 15 minutes or until irritation subsides; consult a physician as required.

In case of skin contact, remove any contaminated clothing and wash skin with soap and warm water.

Treat any asthmatic type reactions symptomatically.

===== SECTION VII - SPILL OR LEAK PROCEDURES =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks), ventilate area, and full protective equipment. Contain and cover spill with inert absorbent material; pour liquid decontaminant over the spillage and allow to react at least 10 minutes; collect material with non-sparking tools into open containers and add further amounts of decontamination solution; cover loosely. Wash down area with decontaminant and flush with water. Refer to other hazard cautions contained on this sheet before attempting clean-up.

** Decontaminant solutions: ammonium hydroxide (0-10%), detergent (2-5%), and balance of water; OR solution of Union Carbide's Tergitol TMN-10 (20%) and water (80%). **

WASTE DISPOSAL METHOD

Do not incinerate closed containers.

Do not close containers of decontaminated material until the evolution of carbon dioxide is complete. Incinerate open containers in an approved facility or use secure landfill in accordance with local, state, and federal regulations.

Dispose in accordance with local, state, and federal regulations.

===== SECTION VIII - SAFE HANDLING AND USE INFORMATION =====

RESPIRATORY PROTECTION

In confined areas, use NIOSH/MSHA approved positive-pressure, air supplied respirator or use hoods.

Use NIOSH/MSHA respirator that is recommended or approved for use in isocyanate containing environments (air purifying or fresh air supplied), consider type of application and environmental concentrations. In spray application you must protect against exposure to both vapor and spray mist. Observe OSHA regulations for respirator use (29 CFR 1910.134). When the airborne isocyanate monomer concentrations are known to be below .2 ppm and if the polyisocyanate (polymeric, oligomer) concentrations are known to be below 10 mg/m³, a properly fitted air-purifying (combination organic vapor and particulate) respirator, proven by test to be effective in isocyanate-containing spray paint environments, will provide sufficient protection. When the above guidelines are exceeded, or if spraying is performed in a confined space or area with limited ventilation, the use of a positive pressure air-supplied respirator is mandatory.

*NOTE: Even during non-spray operations such as mixing, brush or roller application, it is possible to be exposed to solvent or isocyanate vapors. Unless concentrations are known to be below TLV's, the above guidelines should still be followed.

Use ventilation to keep levels below exposure guidelines (see Section II.) User should test and monitor exposure levels to insure all personnel exposure is below guidelines. If not sure or if not able to monitor levels, use a NIOSH/MSHA approved air purifying respirator.

VENTILATION

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Pockets of heavy and/or flammable vapor must not be permitted to form.
Ventilation and respiratory protection must be adequate to prevent the TLV's of hazardous ingredients from being exceeded.
All application areas should be ventilated in accordance with OSHA regulations.

PROTECTIVE GLOVES

Chemical resistant nitrile, neoprene or rubber gloves required.

EYE PROTECTION

Use safety eyewear with splash guards or side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Use protective apron and clothing.
Cover as much of exposed skin area as possible with appropriate clothing.
An eye wash station should be available.

WORK/HYGIENIC PRACTICES

Wash hands before eating or using washroom. Smoke in smoking areas only. Wash clothes before reuse.

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SECTION IX - SPECIAL PRECAUTIONS
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store or use near heat, sparks, or flame. No smoking or open lights. Use with adequate ventilation.
Store tightly closed container and protect from moisture and foreign materials. If contaminants enter container, pressure can build up due to reaction producing carbon dioxide which can cause sealed container to pressurize and burst. Do NOT reseal if contamination is suspected.

OTHER PRECAUTIONS

Store in sealed containers away from space heating equipment.
Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid prolonged or repeated breathing of vapors.

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SECTION X - DISCLAIMER
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