

MATERIAL SAFETY DATA SHEET

DUR-O-BOND P2000-ST

DURANT PERFORMANCE COATINGS

DUR-O-BOND P2000-ST

Revision Date: 7/1/05

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SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME: DUR-O-BOND P2000-ST POURABLE PUTTY
CHEMICAL FAMILY: UNSATURATED POLYESTER RESIN

Manufacturer: DURANT PERFORMANCE COATINGS, INC.
112 RAILROAD STREET
REVERE, MA 02151

Information: 800-420-0021 / www.durantcorp.com

FOR U.S. TRANSPORTATION EMERGENCIES CALL CHEMTREC (800) 424-9300

HMIS CODES: Least (0) → Greatest (4)

HEALTH HAZARD 2
REACTIVITY HAZARD 2

FLAMMABILITY HAZARD 3
PERSONAL PROTECTION F

SECTION IIA: HAZARDOUS INGREDIENTS & OTHER COMPONENTS

(To Nearest 1.00%)

Ingredient	CAS Number	% by Wt.	% by Vol.	LEL	Vapor Press.
1. STYRENE MONOMER	100-42-5	32.00	29.00	1.1	4.30

NA = Not Applicable; NE = Not Established

SECTION IIB: OCCUPATIONAL EXPOSURE LIMITS

Ingr. #	OSHA ppm	OSHA mg/m ³	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
1.	100	NA	20	NA	40	NA

OSHA: NA
ACGIH: NA

NA = Not Applicable; NE = Not Established

SECTION III: PHYSICAL DATA

Boiling Range (degrees F): 293.00 - 293.00
Vapor Density: HEAVIER THAN AIR
Solubility in Water: NIL
Appearance: OPAQUE LIQUID

Pounds per Gallon: Approx. 6.0
Evaporation Rate: SLOWER THAN ETHER
VOC wt/gal: 2.22 lbs non-exempt solvent per adjusted gallon (267 g/l)

Volatiles (%)	by Weight	by Volume
Total	34	30.4
Exempt VOC	1.8	1.6
Non-exempt	32.2	28.8

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 88°F (Styrene) (PMCC)
FLAMMABLE LIMITS: LEL-1.1% UEL-6.1% (Styrene)
EXTINGUISHING MEDIA: Carbon dioxide, dry chemical (small fires), foam and water fog (large chemicals)
SPECIAL FIRE FIGHTING PROCEDURES: Cool containers with water. Fire fighters should wear self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: High temperature exposure for extended periods of time will result in spontaneous uncontrolled exothermic polymerization.

SECTION V: REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY (MATERIALS TO AVOID): Alkali metals, sodium hydroxide, strong acids and oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS: Heating of this material to decomposition may cause the emission of irritating, acrid fumes.
HAZARDOUS POLYMERIZATION: May Occur at temperatures >150°F
CONDITIONS TO AVOID: Excessive Heat, open flame, sparks.

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SECTION VI: SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignitions. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in closed container. If large spill, dike the area to prevent this material from entering water systems or sewers.

WASTE DISPOSAL METHOD: Dispose in accordance with Federal, State and local regulations. If discarded, this material and containers are considered RCRA hazardous wastes based on characteristic of ignitability (40 CFR 261.21).

For further information contact your local solid waste agency or state or United States Environmental Protection Agency's RCRA hotline (800) 424-9346 or (202) 382-3000.

SECTION VII: HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: OSHA PEL and ACGIH TLV are both 50 ppm for an 8-hour time weighted average (TWA). The OSHA PEL and ACGIH short-term exposure level (STEL) are 100 ppm for 15-minute period. Exposure to styrene may exceed the STEL during a 15-minute period (no ceiling for brief exposures), however the average for a single STEL period must not exceed 100 ppm.

PRIMARY ROUTES OF ENTRY: Skin contact, Eye contact, Skin absorption and inhalation.

EFFECTS OF OVER EXPOSURE:

ACUTE: Cause eye, skin, and nose and throat irritation. Vapors may cause mucous membrane irritation and upper respiratory tract discomfort.

CRONIC: Repeated exposure to high concentrations of vapor may cause liver and kidney damage.

SIGNS AND SYMPTOMS OF EXPOSURE:

EYES: May cause irritation. Liquid splashes may result in more serious injuries. May cause tearing.

SKIN: Prolonged or frequent contact may cause defatting and dryness of the skin with resultant irritation and possible dermatitis. Styrene may be absorbed through the skin in toxic amounts.

INHALATION: Vapors may cause mucous membranes irritation and upper respiratory tract discomfort. High concentrations may result in headache, nausea, insensibility and other central nervous systems effects.

INGESTION: May cause gastrointestinal disturbances, pain and discomfort.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Individuals with chronic respiratory conditions (i.e., asthma, chronic bronchitis, emphysema, etc.) may be adversely affected by any fume or airborne particulate matter exposure.

CARCINOGENICITY: For hazard communication purposes under OSHA Standard 29CFR 1910.1200, styrene is listed as a possibly carcinogenic to humans (Class 2B) by the International Agency for Research on Cancer (IARC). Neither data from various long-term animal studies nor from epidemiological studies of workers exposed to styrene provide adequate basis to conclude that styrene is carcinogenic.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with plenty of water for at least 15 minutes. Seek immediate medical aid.

SKIN: Wash with soap and water.

INHALATION: Remove victim from exposure. If unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

INGESTION: DO NOT INDUCE VOMITING (aspiration hazard). Seek immediate medical aid.

SECTION VIII: SPECIAL PROTECTION INFORMATION

PRIMARY ROUTES OF ENTRY: Inhalation, skin contact, ingestion, eyes.

PERSONAL PROTECTIVE EQUIPMENT: In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use antistatic paint suit, goggles, gloves, and air supplied respiratory equipment. All personal protective equipment should meet NIOSH or OSHA requirements.

RESPIRATORY PROTECTION: When personnel, whether spraying or not, are inside a spray booth, ventilation is unlikely to be sufficient to control particulates and chemical vapor in all cases. In such cases air supplied respiratory equipment is recommended until particulate and vapor concentration has fallen below exposure limits. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. See safety equipment supplier for evaluation and recommendation.

VENTILATION: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL.

For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

PROTECTIVE GLOVES: Required for prolonged or repeated contact. Use solvent resistant gloves. Barrier creams are not substitutes for full physical protection. Refer to safety equipment supplier for effective glove recommendations.

EYE PROTECTION: Use safety goggles or face shield designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid storage above 100°F. Avoid prolonged or repeated skin contact. Avoid inhalation of vapors or spray mist. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

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HYGIENIC PRACTICES: Do not eat, drink or smoke in work areas. Wash hands before eating, smoking, or using the wash room. Launder clothing before reuse.

OTHER PRECAUTIONS: Vapors are heavier than air and may travel along floors. Do not take internally. Observe label precautions. Keep closures tight and container upright to prevent leakage. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by regulations. Material has an offensive odor. Prolonged exposure may reduce the user's sensitivity to the odor, thus reducing the effectiveness of odor as a warning against exposure.

KEEP OUT OF REACH OF CHILDREN!!!

SECTION X: SUPPLEMENTAL INFORMATION

TRANSPORTATION INFO: 49 CFR 172.101 DOT: RESIN SOLUTION CLASS 3 FLAMMABLE LIQUID, UN 1866, PG III

REGULATORY INFORMATION:

OSHA: These products are considered hazardous under the Federal OSHA Hazard Communication Standard.

VOC: DUR-O-BOND P2000-ST = 267 g/l = 2.22 #/gal

VOC of material with mixed component B (Hardener) = 0

SARA TITLE III:

Styrene is listed as a SARA toxic chemical and is subject to the reporting requirements of section 313 Title III of the Superfund Amendments and Reauthorization Act of 1986 and CFR Part 372.

TSCA: All ingredients in this product are listed in the TCA Inventory.

All statements, technical information, and recommendations contained herein are based upon available scientific tests or data which we believe to be reliable. Since we can not anticipate all conditions under which this information and our product or products of other manufacturers in combination with our product may be used. DURANT PERFORMANCE COATINGS, INC. makes no warranties, express or implied, and assumes no responsibility in connection with any use of this information.

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END OF MSDS

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