

-----  
M A T E R I A L   S A F E T Y   D A T A   S H E E T  
-----

=====

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

=====

PRODUCT NAME : PRIMER 27C  
IDENTIFICATION NUMBER: PR27C922A00A PREPARE / REVISED: 08/07/06  
PRODUCT USE/CLASS : CONDUCTIVE VINYL ESTER PRIMER

SUPPLIER:	MANUFACTURER:
Dudick, Inc.	Dudick, Inc.
1818 Miller Parkway	1818 Miller Parkway
Streetsboro, Ohio 44241	Streetsboro, Ohio 44241

CHEM-TEL: 800-255-3924	CHEM-TEL: 800-255-3924
24 HOURS A DAY	24 HOURS A DAY

PREPARER: DUDICK, INC., PHONE: 800-322-1970

=====

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

=====

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	STYRENE MONOMER,INHIBITED	100-42-5	45.0 %
02	CARBON	7782-42-5	15.0 %

ITEM	EXPOSURE LIMITS					SKIN
	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	COMPANY TLV-TWA	
01	20PPM	40PPM	50PPM	100PPM	NE	YES
02	3mg/m3 DUST	NO INFO	3mg/m3 DUST	NO INFO	NE	NO

(See Section 16 for abbreviation legend)

=====

SECTION 3 - HAZARDS IDENTIFICATION

=====

\*\*\* EMERGENCY OVERVIEW \*\*\*: WARNING!...FLAMMABLE. EYE AND SKIN IRRITANT.  
HARMFUL IF SWALLOWED. RESPIRATORY TRACT IRRITANT.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: EYE CONTACT MAY CAUSE SEVERE  
IRRITATION WITH CORNEAL INJURY.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: PROLONGED EXPOSURE MAY CAUSE SKIN  
IRRITATION AND BURNS.

EFFECTS OF OVEREXPOSURE - INHALATION: MAY CAUSE IRRITATION OF THE NOSE,  
THROAT, AND LUNGS. MAY CAUSE DIZZINESS,LOSS OF COORDINATION, AND FATIGUE.

(Continued on Page 2)

=====

=====  
SECTION 3 - HAZARDS IDENTIFICATION  
=====

EFFECTS OF OVEREXPOSURE - INGESTION: INGESTION MAY CAUSE BURNS TO THE MOUTH, THROAT, AND ESOPHAGUS. INGESTION MAY CAUSE NAUSEA, CRAMPS, VOMITING, AND DIARRHEA. ASPIRATION HAZARD. PRODUCT MAY ENTER THE LUNGS DURING SWALLOWING AND CAUSE LUNG DAMAGE.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: THE IARC HAS CLASSIFIED STYRENE AS A POSSIBLE HUMAN CARCINOGEN (CLASS 2B). OVEREXPOSURE TO STYRENE HAS BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: LIVER DAMAGE, TESTIS DAMAGE, EFFECTS ON HEARING, MILD REVERSIBLE KIDNEY EFFECTS. RESPIRATORY TRACT DAMAGE. SOME STUDIES IN HUMANS ALLEGE THAT REPEATED EXPOSURE TO STYRENE MAY RESULT IN MINOR, SUBCLINICAL DECREASES IN THE ABILITY TO DISCRIMINATE BETWEEN COLORS.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT SKIN ABSORPTION INHALATION  
INGESTION EYE CONTACT

=====  
SECTION 4 - FIRST AID MEASURES  
=====

FIRST AID - EYE CONTACT: HOLD OPEN EYE LIDS AND FLUSH WITH COPIOUS AMOUNTS OF FLOWING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

FIRST AID - INHALATION: REMOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING, ARTIFICIAL RESPIRATION SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SUPPLEMENTAL OXYGEN MAY BE INDICATED. CALL A PHYSICIAN.

FIRST AID - INGESTION: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION.

=====  
SECTION 5 - FIRE FIGHTING MEASURES  
=====

FLASH POINT: 94 F LOWER EXPLOSIVE LIMIT: 1.1 %  
(SETAFLASH CLOSED CUP) UPPER EXPLOSIVE LIMIT: 6.1 %

AUTOIGNITION TEMPERATURE: NE

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: HAZARDOUS CONDITIONS WILL RESULT THROUGH CONTAMINATION WITH INCOMPATIBLES OR EXPOSURE TO EXCESSIVE HEAT. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL A LONG DISTANCE AND FLASH BACK.

SPECIAL FIRE FIGHTING PROCEDURES: EVACUATE AREA. WATER MAY BE INEFFECTIVE BUT MAY BE USED TO COOL FIRE EXPOSED CONTAINERS. FIGHT FIRE FROM A SAFE DISTANCE. WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. POLYMERIZATION MAY TAKE PLACE UNDER FIRE CONDITIONS WHICH COULD LEAD TO VIOLENT RUPTURE OF THE CONTAINERS.

(Continued on Page 3)

=====

=====|  
SECTION 6 - ACCIDENTAL RELEASE MEASURES  
=====|

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: DIKE AREA TO CONTAIN SPILLAGE. ABSORB EXCESS WITH SAND, EARTH, OR VERMICULITE. SCRAPE UP AND PLACE IN SUITABLE CONTAINER FOR DISPOSAL. WEAR ALL APPROPRIATE SAFETY EQUIPMENT WHILE HANDLING SPILLS. USE NON-SPARKING TOOLS.

=====|  
SECTION 7 - HANDLING AND STORAGE  
=====|

HANDLING: IF BODILY CONTACT OCCURS, REMOVE CONTAMINATED CLOTHING AT ONCE. AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING VAPORS.

STORAGE: DO NOT STORE NEAR INCOMPATIBLES. DO NOT STORE NEAR EXCESSIVE HEAT OR NEAR SOURCES OF IGNITION. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. BUNGS MUST BE KEPT TIGHTLY CLOSED WHEN CONTAINERS ARE NOT IN USE OR ARE PLACED IN STORAGE AREAS.

=====|  
SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION  
=====|

ENGINEERING CONTROLS: GENERAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO MINIMIZE VAPOR CONCENTRATIONS. LOCAL EXHAUST MAY BE REQUIRED.

RESPIRATORY PROTECTION: WEAR A PROPERLY FITTED NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. IN AREAS OF HIGH VAPOR CONCENTRATIONS, A POSITIVE PRESSURE BREATHING APPARATUS MAY BE NECESSARY.

SKIN PROTECTION: IMPERVIOUS RUBBER OR NEOPRENE TYPE. CONSULT GLOVE MANUFACTURER FOR RECOMMENDATIONS.

EYE PROTECTION: USE SPLASH-PROOF GOGGLES OR FACE SHIELD WHEN EYE CONTACT MAY OCCUR. SAFETY GLASSES WITH SIDE SHIELDS RECOMMENDED AS MINIMUM PROTECTION. GOGGLES RECOMMENDED FOR INDIVIDUALS MIXING THE RESIN AND CATALYST.

OTHER PROTECTIVE EQUIPMENT: CLEAN, FULL BODY COVERING TO MINIMIZE SKIN CONTACT WITH MATERIAL. AN EYEWASH STATION AND SAFETY SHOWER IS RECOMMENDED NEAR WORK AREA.

HYGIENIC PRACTICES: SMOKING OR EATING IN THE WORK AREA SHOULD NOT BE PERMITTED. WASH THOROUGHLY AFTER HANDLING MATERIAL. DISCARD CONTAMINATED LEATHER GOODS.

=====|  
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES  
=====|

BOILING RANGE	: 293 - 293 F	VAPOR DENSITY	: Is heavier than air
ODOR	: STYRENE	ODOR THRESHOLD	: NE
APPEARANCE	: VISCOUS LIQUID	EVAPORATION RATE:	Is slower than Ether
SOLUBILITY IN H2O	: NEGLIGIBLE		
FREEZE POINT	: NE	SPECIFIC GRAVITY:	1.068
VAPOR PRESSURE	: NE	pH @ 0.0 %	: NE

(Continued on Page 4)

=====

=====|  
| SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES |  
|=====|

PHYSICAL STATE      : LIQUID                      VISCOSITY                      : 450-850 cps  
COEFFICIENT OF WATER/OIL DISTRIBUTION: NE

(See Section 16 for abbreviation legend)

=====|  
| SECTION 10 - STABILITY AND REACTIVITY |  
|=====|

CONDITIONS TO AVOID: HEAT, FLAME, CONTAMINANTS.

INCOMPATIBILITY: CHLOROSULFONIC ACID. SULFURIC ACID. PURE OXYGEN (O2).  
STRONG ALKALIS. CORROSIVE TO COPPER AND COPPER ALLOYS.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING WILL PRODUCE TOXIC FUMES.  
OXIDES OF CARBON.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

=====|  
| SECTION 11 - TOXICOLOGICAL PROPERTIES |  
|=====|

No product or component toxicological information is available.

=====|  
| SECTION 12 - ECOLOGICAL INFORMATION |  
|=====|

ECOLOGICAL INFORMATION: DO NOT CONTAMINATE PONDS, STREAMS, OR UNDERGROUND  
WATER SUPPLY. PREVENT FROM ENTERING SEWERS.

=====|  
| SECTION 13 - DISPOSAL CONSIDERATIONS |  
|=====|

DISPOSAL METHOD: FOLLOW ALL RELEVANT LOCAL, STATE, AND FEDERAL  
REGULATIONS. THIS PRODUCT AND ANY ABSORBENTS USED IN SPILL CLEANUP ARE  
HAZARDOUS WASTES AND MUST BE DISPOSED OF ACCORDINGLY. EMPTY DRUMS MAY  
CONTAIN RESIDUE OR FUMES WHICH ARE HARMFUL. DO NOT WELD,GRIND,OR USE  
CUTTING TORCHES ON EMPTY DRUMS. FOR INDUSTRIAL USE ONLY. EMPTY CONTAINERS  
CONTAIN PRODUCT RESIDUE WHICH IS HAZARDOUS.DO NOT WELD,BRAZE, OR GRIND.KEEP  
AWAY FROM HEAT,FLAME, AND SOURCES OF IGNITION.DO NOT REUSE EMPTY  
CONTAINERS. THIS PRODUCT EXHIBITS THE CHARACTERISTIC OF IGNITABILITY IF IT  
BECOMES A HAZARDOUS WASTE, D001.

=====|  
| SECTION 14 - TRANSPORTATION INFORMATION |  
|=====|

DOT PROPER SHIPPING NAME: RESIN SOLUTION

DOT TECHNICAL NAME: NA

(Continued on Page 5)

=====|

===== |  
| SECTION 14 - TRANSPORTATION INFORMATION |  
|=====

DOT HAZARD CLASS: 3      HAZARD SUBCLASS: NA

DOT UN/NA NUMBER: UN1866      PACKING GROUP: III      RESP. GUIDE PAGE: 127

===== |  
| SECTION 15 - REGULATORY INFORMATION |  
|=====

THE FOLLOWING COMPONENTS ARE NOT SUBJECT TO REPORTING IN SECTION 2:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT % IS LESS THAN
VINYL ESTER RESIN SOLIDS	068492-68-2	50.0 %
CARBON FIBER	7440-44-0	5.0 %
COBALT OCTOATE 12%	7440-48-4	1.0 %
MINERAL SPIRITS	8052-41-3	1.0 %
N,N-DIMETHYLANILINE	121-69-7	0.1 %
UNSATURATED POLYCARBOXYLIC ACID	MIXTURE	0.1 %
XYLENE, MIXED ISOMERS	1330-20-7	0.1 %
POLYETHER	UNKNOWN	0.1 %
ETHYLBENZENE	100-41-4	0.1 %
HYDROXY ACETIC ACID BUTYL ESTER	7397-62-8	0.1 %
2,6-DIMETHYL-4-HEPTANONE	108-83-8	0.1 %
4,6-DIMETHYL-2-HEPTANONE	19549-80-5	0.1 %
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0.1 %

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD    CHRONIC HEALTH HAZARD    FIRE HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT % IS LESS THAN
STYRENE MONOMER, INHIBITED	100-42-5	45.0 %
COBALT OCTOATE 12%	7440-48-4	1.0 %
N,N-DIMETHYLANILINE	121-69-7	0.1 %
XYLENE, MIXED ISOMERS	1330-20-7	0.1 %
ETHYLBENZENE	100-41-4	0.1 %

TOXIC SUBSTANCES CONTROL ACT:

The chemical substances in this product are not on the TSCA Section 8 Inventory.

(Continued on Page 6)

=====

```

=====
|                                     |
|               SECTION 15 - REGULATORY INFORMATION               |
|                                     |
=====

```

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

```

----- CHEMICAL NAME ----- CAS NUMBER
No information is available.

```

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

```

----- CHEMICAL NAME ----- CAS NUMBER
VINYL ESTER RESIN SOLIDS      068492-68-2
CARBON FIBER                  7440-44-0

```

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

```

----- CHEMICAL NAME ----- CAS NUMBER
VINYL ESTER RESIN SOLIDS      068492-68-2

```

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

```

----- CHEMICAL NAME ----- CAS NUMBER
No Proposition 65 chemicals exist in this product.

```

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: B, D2

```

=====
|                                     |
|               SECTION 16 - OTHER INFORMATION               |
|                                     |
=====

```

HMIS RATINGS - HEALTH: 2\* FLAMMABILITY: 3 REACTIVITY: 1

VOLATILE ORGANIC COMPOUNDS (VOCS): 0.26 lbs/gal, 31 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

```

=====
(Continued on Page 7)
=====

```

=====  
DISCLAIMER  
=====

The information contained on this MSDS has been compiled from information obtained from raw material suppliers and is believed to be accurate. It is the responsibility of the user to comply with all Federal, State and Local Regulations.

=====  
<END OF MSDS>