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

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : FWR 3.0 Spray Adhesive  
 UPC NUMBER : 7079800001  
 PRODUCT USE/CLASS : Spray Adhesive

MANUFACTURED FOR: 24 HOUR EMERGENCY:  
 DeCorp Americas, Inc. TRANSPORTATION: 1-800-535-5053 (352-323-3500)  
 214 Molly Walton Drive MEDICAL: 1-800-327-3874 (513-558-5111)  
 Hendersonville, TN 37075

PREPARE DATE : 4/5/2002  
 REVISION NO. : 0  
 REVISION DATE: 4/5/2002

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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER
01	Isobutane	75-28-5
02	n-Hexane	110-54-3
03	Acetone	67-64-1
04	Propane	74-98-6
05	Xylene	1330-20-7
06	Cyclohexane	110-82-7

ITEM	EXPOSURE LIMITS					
	ACGIH		OSHA		COMPANY	SKIN
TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA		
01	800 ppm	N.E.	800 ppm	N.E.	N.E.	NO
02	50 ppm.	N.E.	100 ppm.	N.E.	N.E.	YES
03	750 ppm	1000 ppm	750 ppm	N.E.	N.E.	NO
04	1000 ppm	N.E.	1000 ppm	N.E.	N.E.	NO
05	100 ppm	150 ppm	100 ppm	N.E.	N.E.	NO
06	300 ppm	N.E.	300 ppm	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER! Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Vapors harmful if inhaled. Harmful or fatal if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Causes skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). May be harmful if absorbed through the skin.

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor harmful if inhaled. Vapor irritates nose, throat and upper respiratory tract. Vapor inhalation may affect the brain or nervous system causing dizziness, headache or nausea or unconsciousness. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. If ingested, this product may cause vomiting, diarrhea, and depressed respiration.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated permanent brain and nervous system damage with prolonged and repeated occupational overexposure to solvents. n-Hexane exposure may cause peripheral nerve damage to the arms and legs which may be permanent. Symptoms include: loss of memory, loss of intellectual ability, and loss of coordination. May cause kidney and liver damage as well as developmental and reproductive toxicity. Repeated exposure may be toxic to the blood. Prolonged or repeated inhalation to solvent vapors may cause irregular heartbeat.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: Asthma.

PRIMARY ROUTE(S) OF ENTRY: INHALATION, SKIN CONTACT

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water for at least fifteen minutes. Contact a physician.

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SECTION 4 - FIRST AID MEASURES

SKIN CONTACT: Wash with soap and water.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately.

Note: Only trained personnel should give artificial respiration or administer oxygen.

INGESTION: DO NOT INDUCE VOMITING. Contact a physician or Regional Poison Control Center immediately.

COMMENTS: Call 1-800-327-3874 if irritation or complications arise from any of the above exposures.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: Aerosol. Extremely Flammable. LOWER EXPLOSIVE LIMIT: N.E.  
UPPER EXPLOSIVE LIMIT: N.E.

AUTOIGNITION TEMPERATURE: N.E.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may ignite explosively. Vapors may cause a flash fire. Vapors may travel long distances to a source of ignition and flash back. Containers may explode if exposed to extreme heat. Eliminate sources of ignition: heat, electrical equipment, sparks, and flames. Do not put in contact with oxidizing or caustic materials.

SPECIAL FIREFIGHTING PROCEDURES: Full protective equipment, including self-contained breathing apparatus, is recommended to protect from combustion products. Cool exposed containers with water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Use absorbent material or scrape up dried material and place into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING INFORMATION: DO NOT SMOKE WHILE USING THIS PRODUCT. KEEP OUT OF REACH OF CHILDREN. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well ventilated area. Make sure nozzle arrow is directed away from yourself prior to discharge.

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SECTION 7 - HANDLING AND STORAGE

STORAGE INFORMATION: Do not store at temperatures above 120 degrees F. Do not store or use this product in direct sunlight. Keep away from heat, sparks, and flame. Keep containers from freezing. Store away from caustics and oxidizers.

OTHER PRECAUTIONS: Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal. Do not take internally.

Application of this product can adversely affect indoor air quality. Consult with the occupants or a representative(i.e. maintenance, building manager, industrial hygienist, or safety officer) to determine ways to minimize any impact.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposure below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, etc.) for vapors before entering.

RESPIRATORY PROTECTION: If 8 hour exposure limit or value is exceeded for any component, use an approved NIOSH/OSHA respirator. Consult your safety equipment supplier and the OSHA regulation, 29 CFR 1910.134 for respirator requirements. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

EYE PROTECTION: Goggles or safety glasses with side shields.

SKIN PROTECTION: Solvent impervious gloves.

OTHER PROTECTIVE EQUIPMENT: Protective coveralls are recommended where adhesive mist drift is determined to be a problem.

HYGIENIC PRACTICES: Remove contaminated clothing and wash before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: N.A.	VAPOR DENSITY	: Is heavier than air
ODOR	: Gasoline-like		
APPEARANCE	: Opaque liquid	EVAPORATION RATE:	Is faster than Butyl Acetate
SOLUBILITY IN H2O	: Negligible		
SPECIFIC GRAVITY	: 0.81		
VAPOR PRESSURE	: N.A.		
PHYSICAL STATE	: Liquid contact adhesive in aerosol form		

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx, NOx

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

No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State, and Local Standards. Use all material before disposal. If unable to use entire contents of can, relieve pressure in container until it equals external pressure. Incineration of this can without first relieving all pressure may result in an explosion and personal injury. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261): D001-Ignitable.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Consumer Commodity

DOT HAZARD CLASS: ORM-D

DOT UN/NA NUMBER: NONE                      PACKING GROUP: NONE

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SECTION 14 - TRANSPORTATION INFORMATION

(For containers of 16 ounces or less for ground transportation only)

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

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

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
N-Hexane	110-54-3
Xylene	1330-20-7
Cyclohexane	118-82-7
Methyl Ethyl Ketone	79-93-3

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
Acetone	67-64-1
Cyclohexane	110-82-7

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
No nonhazardous material among top five components.	

PENNSYLVANIA RIGHT-TO-KNOW:

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

CHEMICAL NAME	CAS NUMBER
Hydrocarbon Resin	proprietary
Styrene isoprene rubber	proprietary

CALIFORNIA PROPOSITION 65:

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

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SECTION 15 - REGULATORY INFORMATION

CHEMICAL NAME	CAS NUMBER
Benzene	74-43-2

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: No information available.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2      FLAMMABILITY: 4      REACTIVITY: 1

VOC material: 425 - 435 gm/l(53 - 54%) where acetone is exempt.

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS  
N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
PEL - PERMISSIBLE EXPOSURE LIMIT  
NTP - NATIONAL TOXICOLOGY PROGRAM  
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986  
STEL - SHORT TERM EXPOSURE LIMIT  
TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)  
VOC - VOLATILE ORGANIC COMPOUND  
NJRTK - NEW JERSEY RIGHT TO KNOW LAW  
N.D. - NOT DETERMINED

MSDS# 00030198

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End OF MSDS >