# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME: FL - 9002, FPC - 3750, FPC - 3751, FPC - 9000, FPC - 9001, DB - 9003, CG - 9000 Clear Adhesive**

GENERAL USE: Adhesive

PRODUCT DESCRIPTION: Clear liquid, characteristic sweet odor

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| MANUFACTURER'S NAME<br>FPC Corporation | DATE PREPARED: May 1, 2008<br>SUPERSEDES: April 22, 2005 | Page 1 of 4 |
| ADDRESS (NUMBER, STREET, P.O. BOX)<br>355 Hollow Hill Drive | TELEPHONE NUMBER FOR INFORMATION<br>(847) 487-4583 | |
| (CITY, STATE AND ZIP CODE) COUNTRY<br>Wauconda, IL 60084 USA | EMERGENCY TELEPHONE NUMBER<br>(847) 487-4583 | |

## SECTION 2 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

Colorless flammable liquid, potentially hazardous vapors. Can cause serious or fatal complications if swallowed. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. Hazard Symbols for this product - F, Xi, Xn. Risk Phrases - R11, 20/22, 36/38

**POTENTIAL HEALTH EFFECTS**

INHALATION: High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

SKIN: Brief contact may cause slight irritation; prolonged contact may cause moderate irritation or dermatitis.

EYES: High vapor concentration or contact may cause irritation and discomfort.

INGESTION: May result in vomiting; aspiration of vomitus into the lungs must be avoided; DO NOT induce vomiting. Minute amounts aspirated into the lungs can produce severe lung injury, chemical pneumonitis, pulmonary edema or death.

CARCINOGENICITY NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| HAZARDOUS COMPONENTS | CAS # | EINECS # | % (by weight) | OSHA PEL PPM | OSHA PEL MG/M3 | ACGIH TWA PPM | ACGIH TWA MG/M3 | RQ LBS |
|---|---|---|---|---|---|---|---|---|
| Toluene (a,b,c,d,e) | 108-88-3 | 203-625-9 | 40 - 70 | 200 | | 50 | | 1000 |
| Ethyl acetate (a,b,c) | 141-78-6 | 205-500-4 | 3 - 7 | 400 | 1400 | 400 | | 5000 |

The remaining components of this product are non-hazardous or are in small enough quantities as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.

(a,c) See Section 15

(b) Indicates that the Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulations in 40 CFR 260-281.

(d) Indicates listing in Table Z - 2, 29 CFR 1910.1000, value shown is 8-hour Time Weighted Average. See table for acceptable ceiling concentration limits and acceptable maximum peak above the acceptable ceiling concentration.

(e) California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986, chemicals known to the state to cause cancer or reproductive toxicity. A person in the course of doing business must warn others who may consume, come into contact with, or otherwise be exposed to this chemical.

## SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

INGESTION: DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.

## SECTION 5 - FIRE FIGHTING MEASURES

| FLASH POINT (METHOD USED) | FLAMMABLE LIMITS | LEL: 2.2% | UEL: 11.0% |
|---|---|---|---|
| 24° F ( - 4.4° C ) TCC | AUTOIGNITION TEMPERATURE: | Not determined | NFPA CLASS: **IB** |

GENERAL HAZARDS: Product is flammable. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide. Vapors may cause a flash fire or ignite explosively. Vapors may travel a considerable distance to a source of ignition and flash back.

EXTINGUISHING MEDIA

Carbon dioxide, water fog, dry chemical, chemical foam.

FIRE FIGHTING PROCEDURES

Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material is flammable!

HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes or vapors, oxides of carbon.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - FLAMMABLE - Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; for spills in excess of allowable quantities (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 and SARA Title III, Section 313 40 CFR 372 for detailed instructions concerning reporting requirements. Do not discharge into lakes, ponds, streams or public waters.

## SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. CAUTION - FLAMMABLE - keep away from all sources of ignition. "Empty" containers may contain residue which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use non-sparking tools when opening and closing containers. Maintain well ventilated work areas to minimize exposure when handling this material.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS**

The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

**PERSONAL PROTECTION:**

RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134, ANSI Z88.2, or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.

EYE PROTECTION: Chemical splash goggles. Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station nearby.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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| APPEARANCE AND ODOR<br>Clear liquid, characteristic sweet odor | VAPOR DENSITY (AIR = 1)<br>> 1 |
| SPECIFIC GRAVITY (WATER = 1)<br>0.800 - 0.900 | EVAPORATION RATE (Water = 1)<br>< 1 |
| SOLUBILITY IN WATER<br>Negligible | % VOLATILE (BY WEIGHT)<br>65% |
| pH<br>Not applicable | VAPOR PRESSURE<br>76 mm Hg @ 20° C |
| BOILING RANGE<br>168° F - 230° F to ( 75.6° C - 110° C ) | FREEZING POINT<br>Not specified |
| VISCOSITY<br>Not specified | VOLATILE ORGANIC COMPOUNDS (VOC's)<br>4.6 pounds / gallon ( 551 grams / liter ) |

## SECTION 10 - STABILITY AND REACTIVITY

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|---|---|
| STABILITY<br>UNSTABLE:<br>STABLE: X | CONDITIONS TO AVOID: Extreme temperatures, open flames, sparks. |

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

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| HAZARDOUS POLYMERIZATION<br>MAY OCCUR:<br>WILL NOT OCCUR: X | CONDITIONS TO AVOID: None |

## SECTION 11 - TOXICOLOGICAL INFORMATION

| Hazardous Ingredients | CAS # | EINECS # | LD50 of Ingredient<br>Species and Route | LC50 of Ingredient<br>Species |
|---|---|---|---|---|
| Toluene (a,b,c,d,e) | 108-88-3 | 203-625-9 | 5000 mg / kg<br>Oral - rat | 7525 ppm / 4H<br>Inhalation - mouse |
| Ethyl acetate (a,b,c) | 141-78-6 | 205-500-4 | 6100 mg / kg<br>Oral - rat | 45,000 mg / kg / 2H<br>Inhalation - mouse |
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| | | | | |
| (a,c) See Section 15 | | | | |

## SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

## SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. This product may produce hazardous vapors in a closed disposal container creating a dangerous environment. Refer to 40 CFR 260 - 299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

## SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Adhesives

| | |
|---|---|
| DOT HAZARD CLASS / Pack Group: 3 / III | IATA HAZARD CLASS / Pack Group: 3 / III |
| REFERENCE: 49 CFR 173.150, .173, .242 | IMDG HAZARD CLASS: 3 / III |
| UN / NA IDENTIFICATION NUMBER: UN 1133 | RID/ADR Dangerous Goods Code: 3 |
| LABEL: FLAMMABLE LIQUID | UN TDG Class / Pack Group: 3 / III |
| HAZARD SYMBOLS: F | Hazard Identification Number (HIN): 30 |

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

## SECTION 15 - REGULATORY INFORMATION

**TSCA (Toxic Substance Control Act)**

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

**SARA TITLE III (Superfund Amendments and Reauthorization Act)**

311/312 Hazard Categories

Immediate health, fire hazard

313 Reportable Ingredients:

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

**CERCLA (Comprehensive Response Compensation and Liability Act)**

(c) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 2,000 lbs) or greater amounts, according to 40 CFR 302.

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986**

There is a reportable chemical present (Toluene) known to the state of California to cause cancer or reproductive toxicity.

**CPR (Canadian Controlled Products Regulations)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: B2, D2A, D2B

**IDL (Canadian Ingredient Disclosure List)**

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 3.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)**

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

**WGK Water Quality Index: 2** **VbK Index: A I**

**Risk Phrases**

R11 Highly flammable.
R20/22 Harmful by inhalation and if swallowed.
R36/38 Irritating to eyes and skin.

**SYMBOL(S) REQUIRED FOR LABEL**

Flammable Harmful

**Safety Phrases**

S16 Keep away from sources of ignition
S23 Do not breathe vapor.
S25 Avoid contact with eyes.
S28 After contact with skin, wash immediately with plenty of soap and water.

## SECTION 16 - OTHER INFORMATION

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on Information from similar products, the ingredients, technical literature, and/or professional experience.

**HMIS HAZARD RATINGS**

| | | | |
|---|---|---|---|
| HEALTH | 2 | * = Chronic Health Hazard | 2 = MODERATE |
| FLAMMABILITY | 3 | 0 = INSIGNIFICANT | 3 = HIGH |
| PHYSICAL HAZARD | 0 | 1 = SLIGHT | 4 = EXTREME |
| PERSONAL PROTECTIVE EQUIPMENT | B | Safety Glasses, Gloves | |

**REVISION SUMMARY:**

This MSDS has been revised in the following sections:
Format revision

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**The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.**