

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME: # 373 Spray Adhesive**

GENERAL USE: Adhesive

PRODUCT DESCRIPTION: Aerosol, white liquid, extremely flammable, mint odor



MANUFACTURER'S NAME

FPC Corporation

DATE PREPARED: February 20, 2009

SUPERSEDES: New

Page 1 of 4

ADDRESS (NUMBER, STREET, P.O. BOX)

355 Hollow Hill Drive

TELEPHONE NUMBER FOR INFORMATION

(847) 487-4583

(CITY, STATE AND ZIP CODE)

Wauconda, IL 60084

COUNTRY

USA

EMERGENCY TELEPHONE NUMBER

(847) 487-4583

## SECTION 2 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Flammable. Dangerous fire and explosion hazard. Avoid heat, sparks and flames. Simple asphyxiant - this product does not contain oxygen and may cause asphyxia if released in a confined area. Maintain oxygen levels between 19.5% and 23.5%. Simple hydrocarbons can cause irritation and central nervous system depression at high concentrations. Contents under pressure. Use and store below 125° F. Hazard Symbol: F Risk Phrases: R 12, 20

### POTENTIAL HEALTH EFFECTS

**INHALATION:** Vapors may cause narcosis with headache, difficulty breathing, lightheadedness, drowsiness, unconsciousness and possibly death. Concentrations for 10 minutes may cause dizziness. Very high concentrations (>10,000 ppm) may cause asphyxiation with rapid respiration, reduced mental alertness and muscle coordination, nausea, vomiting, prostration, unconsciousness, convulsions, coma and death.

**SKIN:** Not likely to cause a problem due to high volatility of product. Contact with liquid or rapidly expanding gases released under high pressure may cause frostbite and irritation.

**EYES:** Direct contact with concentrated vapor or liquid may cause severe irritation.

**INGESTION:** Ingestion of liquid 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		ACGIH TWA		RQ LBS
				PPM	MG/M3	PPM	MG/M3	
2-Methylpentane	107-83-5	203-523-4	15 - 40	500				
Dimethyl ether	115-10-6	204-065-8	10 - 30	not established				
Pentane	109-66-0	203-692-4	10 - 30	1000	2950	600	1770	
Cyclohexane (a,b,c)	110-82-7	203-806-2	10 - 30	300	1050	300		1000
Acetone (b,c,e)	67-64-1	200-662-2	7 - 13	1000	2400	500		5000
Propane	74-98-6	200-827-9	3 - 7	1000	1800	1000	1800	
Isobutane	75-28-5	200-857-2	7 - 13	not established				
1,1-Difluoroethane (d,e)	75-37-6	200-866-1	7 - 13	not established				

(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) Product is listed as a greenhouse gas identified by the IPCC (Intergovernmental Panel on Climate Change) as both natural and anthropogenic substance that has been recognized by the international scientific community as having the potential to bring about climate change.

(e) Low-reactive organic compound which has been exempted as a VOC by the U.S. EPA.

**MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: # 373 Spray Adhesive  
February 20, 2009

**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:** Wash affected area with soap and water; 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) - 156° F (- 104.4° C) TCC	FLAMMABLE LIMITS	LEL: 1.0%	UEL: 18.0%
	AUTOIGNITION TEMPERATURE:	Not determined	NFPA CLASS: <b>IA</b>

**GENERAL HAZARDS:** Flammable gas. Propane is heavier than air and may travel a considerable distance to an ignition source. Keep away from open flame and other sources of ignition. Rapid flame propagation and flashback possible. Do not allow smoking in storage areas or when handling. Containers may rupture violently from pressure when involved in a fire situation.

**EXTINGUISHING MEDIA**  
Carbon dioxide, dry chemical.

**FIRE FIGHTING PROCEDURES**  
If possible, stop the flow of gas. Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. 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. Contents under pressure. Do not use or store near heat or ignition source.

**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 - EXTREMELY 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 - EXTREMELY FLAMMABLE - keep away from all sources of ignition. "Empty" containers may contain residue which may form explosive vapors. Do not puncture container. Do not attempt to refill container. 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:** Utilize appropriate gloves for protection needed from cold, based on exposure.

**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.

**MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: # 373 Spray Adhesive  
February 20, 2009

Page 3 of 4

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR Aerosol, white liquid, extremely flammable, mint odor	VAPOR DENSITY (AIR = 1) > 1
SPECIFIC GRAVITY (WATER = 1) 0.7222	EVAPORATION RATE (Water = 1) < 1
SOLUBILITY IN WATER Negligible	% VOLATILE (BY WEIGHT) > 95%
pH Not applicable	VAPOR PRESSURE Not determined
BOILING RANGE - 44° F to 177° F ( - 42.2° C to 80.6° C )	FREEZING POINT Not determined
VISCOSITY Gas	VOLATILE ORGANIC COMPOUNDS (VOC's) 4.6 pounds / gallon (551 grams / liter )

**SECTION 10 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: 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.	
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X	CONDITIONS TO AVOID: None

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazardous Ingredients	CAS #	EINECS #	LD50 of Ingredient Species and Route	LC50 of Ingredient Species
2-Methylpentane	107-83-5	203-523-4	Not established	Not established
Dimethyl ether	115-10-6	204-065-8	Not established	Not established
Pentane	109-66-0	203-692-4	Not established	364 gm / m3 / 4H Inhalation-rat
Cyclohexane (a,b,c)	110-82-7	203-806-2	813 mg / kg Oral - mouse	Not established
Acetone (b,c,e)	67-64-1	200-662-2	9750 mg / kg Oral - rat	16,000 ppm / 4H Inhalation - rat
Propane	74-98-6	200-827-9	Not established	Not established
Isobutane	75-28-5	200-857-2	Not established	57 pph / 15 M Inhalation - rat
1,1-Difluoroethane (d,e)	75-37-6	200-866-1	Not established	Not established

**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: Aerosols

DOT HAZARD CLASS / Pack Group: 2.1  
REFERENCE: 49 CFR 173.115, .306  
UN / NA IDENTIFICATION NUMBER: UN 1950  
LABEL: FLAMMABLE GAS  
HAZARD SYMBOLS: F

IATA HAZARD CLASS / Pack Group: 2.1  
IMDG HAZARD CLASS: 2.1  
RID/ADR Dangerous Goods Code: 2.1  
UN TDG Class / Pack Group: 2.1  
Hazard Identification Number (HIN): 23

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.

**MATERIAL SAFETY DATA SHEET**

PRODUCT NAME: # 373 Spray Adhesive  
February 20, 2009

**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, sudden release of pressure

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 = 7,000 lbs) or greater amounts, according to 40 CFR 302.

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

There are no reportable chemicals present 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: A, B5, 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**

R12 Extremely flammable.  
R20 Harmful by inhalation.

**SYMBOL(S) REQUIRED FOR LABEL**

Flammable Compressed Gas



**Safety Phrases**

S16 Keep away from sources of ignition.  
S38 In case of insufficient ventilation, wear suitable respiratory equipment.

**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	4	0 = INSIGNIFICANT	3 = HIGH
PHYSICAL HAZARD	1	1 = SLIGHT	4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT B Safety Glasses, Gloves

**REVISION SUMMARY:**

This MSDS has been revised in the following sections:  
Section 2, Ingredients

**MSDS Prepared by:**

Comprehensive Data Base, Inc.  
P.O. Box 686  
Seffner, FL 33583 USA  
(863) 644 - 3298 www.compdatabase.com or www.msds.cc

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.