

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/13/2009  
 MSDS No: R 3113A  
 Date Revised: 11/13/2009  
 Revision No: 6

## CONBOND C985 Contact Adhesive (item #C985-01C, C985-55C)

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CONBOND C985 Contact Adhesive (item #C985-01C, C985-55C)

#### MANUFACTURER

ITW TACC  
 56 Air Station Industrial Park  
 Rockland MA 02370

**Product Stewardship:** (781) 878-7015

**Service Number:** (800) 503-6991

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation): (800) 424-9300

**COMMENTS:** CONBOND is a registered trademark of Illinois Tool Works, Inc.

### 2. HAZARDS IDENTIFICATION

#### HAZARD DESIGNATION

"F" - Highly flammable

"Xn" - Harmful

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** DANGER! Extremely flammable liquid and vapor. Vapor may cause flash fire and explosion. Harmful or fatal if swallowed. Harmful if absorbed through the skin. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage. High vapor concentrations may cause drowsiness. Can cause eye, skin and respiratory tract irritation.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Can cause severe eye irritation and corneal damage.

**SKIN:** Causes defatting and skin irritation. Can cause dermatitis.

**SKIN ABSORPTION:** May be absorbed through the skin in harmful amounts.

**INGESTION:** Can cause gastrointestinal irritation, nausea and vomiting. Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Harmful or fatal if swallowed.

**INHALATION:** May cause nose or throat irritation. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Liquid and vapor can severely irritate the eyes depending on type of exposure (splash, vapor) and exposure time.

**SKIN:** Mild to moderate skin irritant.

**SKIN ABSORPTION:** May be absorbed through the skin and can contribute to overall exposure. Effects are similar to CNS depression.

**INGESTION:** May result in central nervous system (CNS) depression with symptoms such as headaches, nausea, vomiting, diarrhea, dizziness, incoordination and unconsciousness. Aspiration of material into lungs may cause chemical pneumonitis which can be fatal.

**INHALATION:** High vapor concentrations may cause CNS depression with symptoms including light headedness, giddiness, nausea, drowsiness, headache, nose, throat and respiratory tract irritation,

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reduced appetite, confusion, and unconsciousness.

**ACUTE TOXICITY:** High vapor concentrations may cause central nervous system (CNS) depression with symptoms including light headedness, giddiness, nausea, drowsiness, headache, nose, throat and respiratory tract irritation, reduced appetite, confusion and unconsciousness.

**CHRONIC EFFECTS:** Damage to the nervous system of the extremities, peripheral neuropathy, with symptoms including numbness, tingling and weakness in the toes and fingers, sensory impairment to touch, pain, vibration and temperature, muscular weakness, blurred vision, coldness of extremities, loss of body weight and reflexes, and even paralysis. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

**MUTAGENICITY:** None known.

**ROUTES OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Absorption, and Skin Contact

**TARGET ORGAN STATEMENT:** Central Nervous System (CNS)

**IRRITANCY:** Eyes, nose, throat, respiratory tract, and skin irritation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS	EINECS	Classification
VM&P Naptha	25 - 50	008032-32-4	232-453-7	F, Xn; 11-65
Toluene	15 - 40	000108-88-3	203-625-9	F, Xn; 11-20
Methyl Ethyl Ketone	10 - 30	000078-93-3	201-159-0	F, Xi; 11-36/37

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eye lids occasionally. Get immediate medical attention.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash or dispose of clothing before reuse.

**INGESTION:** Do not induce vomiting, keep person warm, quiet and get medical attention immediately. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Aspiration of this material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** (33°F) Setafash CC Tester-ASTM D 3828

**FLAMMABLE LIMITS:** 0.9 to 10.0

**AUTOIGNITION TEMPERATURE:** (450°F) to (997°F)

**FLAMMABLE CLASS:** Class IB

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**GENERAL HAZARD:** Flammable liquid and vapor.

**EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide, water spray or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Monoxide, Carbon Dioxide, Aldehydes

**EXPLOSION HAZARDS:** Avoid fire, sparks, static electricity and hot surfaces. Liquid readily evaporates at room/ambient temperature. Vapors are invisible, flammable, heavier than air, and may accumulate in low areas and spread long distances. Distant ignition and flashback are possible.

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus with pressure-demand, full face piece SCBA (MSHA/NIOSH approved or equivalent) and full protective gear.

**SENSITIVE TO STATIC DISCHARGE:** Likely to catch fire from near-by spark. Static charge may accumulate by flow or agitation. Grounding and bonding of containers is required.

**SENSITIVITY TO IMPACT:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Monoxide and Carbon Dioxide may form when heated to decomposition.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. Only those persons who are adequately trained, authorized, and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up.

**LARGE SPILL:** Keep spectators away. Only those persons who are adequately trained, authorized and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up. Ventilate the area by natural means or by explosion proof mechanical means (i.e. fans). Know and prepare for spill response before using or handling this product. Eliminate all ignition sources (flames, hot surfaces, portable heaters and sources of electrical, static, or frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered and labeled metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools and appropriate PPE. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe vapors. Avoid contact with body. Turn off all pilot lights, flames, stoves, heaters, electric motors, welding equipment and other sources of ignition. Empty containers must not be washed and re-used for any purpose. Contact lens wearers must wear protective eye wear around chemical vapors and liquid. Wash hands thoroughly after handling. Flammable vapors may cause flash fire or ignite explosively. To prevent build-up of vapors, use adequate natural and/or mechanical ventilation (e.g. open all windows and doors to achieve cross ventilation). Containers may be hazardous when empty. Never use welding or cutting torch on or near

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container. Do not cut, drill, grind, or expose containers to heat, sparks, static electricity or other source of ignition. Explosion may occur causing injury or death.

**HANDLING:** Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

**STORAGE:** Keep container closed when not in use. Store in a dry well ventilated area, out of the sun and away from ignition sources. Do not remove or deface label. Prevent water or moist air from entering container.

**STORAGE TEMPERATURE:** 15.5°C (60°F) Minimum to 35°C (95°F) Maximum

**SHELF LIFE:** 1 year from manufacture date

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
VM&P Naptha	TWA	NL [1]	NL [1]	300 ppm	1370 mg/m <sup>3</sup>
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Toluene	TWA	200 ppm	NL	20 ppm	NL
	STEL	300 ppm [2]	NL [2]	NL [1]	NL [1]
Methyl Ethyl Ketone	TWA	200 ppm	590 mg/m <sup>3</sup>	200 ppm	590 mg/m <sup>3</sup>
	STEL	NL [1]	NL [1]	300 ppm	885 mg/m <sup>3</sup>
<b>Footnotes:</b> 1. NL = Not Listed 2. C = Ceiling					

**ENGINEERING CONTROLS:** Provide sufficient explosion proof mechanical (general and/or local exhaust) ventilation to maintain exposure below the occupational exposure limit and exposure concentration.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields (or goggles) or a full face respirator.

**SKIN:** Wear chemical protective clothing & boots to prevent repeated or prolonged skin contact.

**RESPIRATORY:** NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate

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protection. 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.

**PROTECTIVE CLOTHING:** Wear chemical resistant gloves, such as nitrile rubber.

**WORK HYGIENIC PRACTICES:** Wash hands thoroughly after use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Solvent-like

**COLOR:** Clear

**PERCENT VOLATILE:** 79.1

**Notes:** by weight

**BOILING POINT:** 79.6°C (175.3°F) to 110.6°C (231°F)

**FLASHPOINT AND METHOD:** (33°F) Setaflash CC Tester-ASTM D 3828

**SOLUBILITY IN WATER:** Slight

**EVAPORATION RATE:** > 1.0 (n-Butyl Acetate=1)

**DENSITY:** 7.15 lbs/gal

**SPECIFIC GRAVITY:** 0.858

**(VOC):** 678.100 gr/L EPA Method 24 VOC

**Notes:** Photochemically Reactive Only VOC: 677.3 gr/L

**COMMENTS:** 1.94 lb VHAP/lb Solid  
 40.6% by weight HAP

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Stable.

**POLYMERIZATION:** Product will not undergo polymerization.

**CONDITIONS TO AVOID:** Avoid fire, sparks, static electricity and hot surfaces.

**POSSIBILITY OF HAZARDOUS REACTIONS:** None Expected.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and carbon dioxide may form when heated to decomposition.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, strong acids and strong bases.

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### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
VM&P Naptha	No data	No data	No data
Toluene	No data	No data	No data
Methyl Ethyl Ketone	2737 mg/kg	5000 to 13000 mg/kg	23500 mg/L (8-hr dose)

#### CARCINOGENICITY

Chemical Name	IARC Status
Toluene	3

**IRRITATION:** Eyes, nose, throat, respiratory tract irritation.

**CORROSIVITY:** Not Applicable

**SENSITIZATION:** Not Applicable

**NEUROTOXICITY:** Not Applicable

**GENETIC EFFECTS:** Not Applicable

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** This product contains components that will normally float on water. These components may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

**ECOTOXICOLOGICAL INFORMATION:** Contains components that are potentially toxic to freshwater and saltwater ecosystems.

**BIOACCUMULATION/ACCUMULATION:** Contains components with the potential to bio-accumulate.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in accordance with all local, state and federal regulations.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Adhesives

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** 1133

**PACKING GROUP:** II

**NAERG:** 128

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**MARINE POLLUTANT #1:** None

**OTHER SHIPPING INFORMATION:** contains (Toluene, Methyl Ethyl Ketone)

**SPECIAL SHIPPING NOTES:** If individual container size is less than 1.3 gallons, the proper shipping name is:

ORM-D Consumer Commodity  
Non-Regulated

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable Liquid

\*\* for containers > 1.3 gallons (4.9 Liters) \*\*

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

##### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Toluene	15 - 40	000108-88-3
Methyl Ethyl Ketone	10 - 30	000078-93-3

##### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Toluene	15 - 40	1,000 lbs.
Methyl Ethyl Ketone	10 - 30	5,000

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
VM&P Naptha	008032-32-4
Toluene	000108-88-3
Methyl Ethyl Ketone	000078-93-3

##### CLEAN AIR ACT

Chemical Name	Wt.%	CAS
Toluene	15 - 40	000108-88-3
Methyl Ethyl Ketone	10 - 30	000078-93-3

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### STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Toluene	New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical
Methyl Ethyl Ketone	New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical

**CALIFORNIA PROPOSITION 65:** This product contains toluene, a chemical known to the state of California to cause birth defects or other reproductive harm.

Chemical Name	Wt. %	Listed
Toluene	15 - 40	• Developmental Toxicity

### CANADA

#### WHMIS HAZARD SYMBOL AND CLASSIFICATION



Flammable Liquid



Toxic

### EUROPEAN COMMUNITY

#### EEC LABEL SYMBOL AND CLASSIFICATION



"F" - Highly flammable



"Xn" - Harmful

### 16. OTHER INFORMATION

**INFORMATION CONTACT:** (781) 878-7015

**REVISION SUMMARY:** Revision #: 6 This MSDS replaces the November 13, 2009 MSDS. Any changes in information are as follows: In Section 1 Comments

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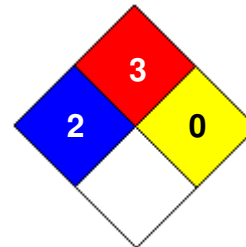
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### HMIS RATING

<b>HEALTH:</b>	*	<b>2</b>
<b>FLAMMABILITY:</b>		<b>3</b>
<b>PHYSICAL HAZARD:</b>		<b>0</b>
<b>PERSONAL PROTECTION:</b>	<b>B</b>	

### NFPA CODES



### GENERAL STATEMENTS: Keep out of reach of children

For professional or industrial use only

If you cannot read, or do not understand all directions, cautions, and warnings, do not use this product

For spray applications, use only with approved equipment

### MANUFACTURER DISCLAIMER:

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