

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/20/2009  
MSDS No: SPLVA  
Date Revised: 11/20/2009  
Revision No: 5

## CONBOND C5800 Aerosol Adhesive (item #C580013C)

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CONBOND C5800 Aerosol Adhesive (item #C580013C)

#### 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+" - Extremely flammable

"Xn" - Harmful

"N" - Dangerous for the environment

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** DANGER! Extremely flammable liquid and vapor. Vapors may cause flash fire and explosion. Harmful or fatal if swallowed. Contents under pressure. Can cause eye, skin and respiratory tract irritation. Methanol may be absorbed through the skin. Methyl acetate creates a special hazard because it floats on water.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Contact causes severe eye irritation with redness, tearing and pain. May cause possible corneal injury.

**SKIN:** May cause moderate skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**SKIN ABSORPTION:** May be absorbed through the skin.

**INGESTION:** Harmful or fatal if swallowed. Inflammation of mouth, throat, esophagus and/or stomach. Can cause gastrointestinal irritation with symptoms of nausea, vomiting and diarrhea. Methanol may cause systemic toxicity with acidosis. May cause central nervous system depression (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision). May cause cardiopulmonary system effects.

**INHALATION:** Irritating to the nose, throat and respiratory tract. Exposure to high concentrations of vapor or mist can cause central nervous system depression with symptoms of headache, dizziness, stupor, loss of consciousness or death depending on concentration and duration of exposure. Exposure to high concentrations can cause irregular heartbeat, cardiac arrest and death. Prolonged exposure may cause adverse effects on the lungs, liver, kidney and heart.

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

**TARGET ORGAN STATEMENT:** Central nervous system (CNS) depression, liver, kidneys, pancreas, heart, lungs and brain. Overexposure to methanol may cause visual impairment or blindness.

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/20/2009  
MSDS No: SPLVA  
Date Revised: 11/20/2009  
Revision No: 5

## CONBOND C5800 Aerosol Adhesive (item #C580013C)

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name   | Wt. %   | CAS         | EINECS    | Classification                     |
|---|---------|-------------|-----------|------------------------------------|
| Methyl Acetate  | 15 - 40 | 000079-20-9 | 201-185-2 | F, Xi; 11                          |
| Dimethyl Ether  | 10 - 30 | 000115-10-6 | 204-065-8 | F+; 12                             |
| Hydrocarbon Propellant  | 10 - 30 | Mixture     | 200-338-0 | F+; 12                             |
| n-Hexane  | 7 - 13  | 000110-54-3 | 203-777-6 | F,Xn,N; 11-38-48/20-62-65-67-51/53 |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | 3 - 10  | 064742-89-8 | 265-192-2 | Xn; 65                             |
| n-Heptane   | 1 - 5   | 000142-82-5 | 265-192-2 | F,Xi,N; 11-38-50/53-65-67          |
| Cyclohexane   | 1 - 5   | 000110-82-7 | 203-806-2 | F; 11                              |
| Methanol  | < 0.5   | 000067-56-1 | 200-659-6 | F,T; 11-23/25                      |

### 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. Get medical attention immediately. Never give anything by mouth to an unconscious person.

**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:** -104°C (-156°F) CC

**FLAMMABLE LIMITS:** 0.6 to 16.0

**AUTOIGNITION TEMPERATURE:** (437°F) to (851°F)

**FLAMMABLE CLASS:** Class IB

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

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

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

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/20/2009

MSDS No: SPLVA

Date Revised: 11/20/2009

Revision No: 5

## CONBOND C5800 Aerosol Adhesive (item #C580013C)

**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. Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

**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 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.

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/20/2009  
MSDS No: SPLVA  
Date Revised: 11/20/2009  
Revision No: 5

## CONBOND C5800 Aerosol Adhesive (item #C580013C)

**HANDLING:** Use adequate ventilation and appropriate respiratory protection to avoid breathing vapors when cover is removed. Ground and bond all equipment when handling flammable solvent-borne material.

**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>      |
| Methyl Acetate  | TWA  | 200 ppm                | 610                                   | 200 ppm           | 606                    |
|   | STEL | NL <sup>[1]</sup>      | NL <sup>[1]</sup>                     | 250 ppm           | 757                    |
| Dimethyl Ether  | TWA  | NL <sup>[1]</sup>      | NL <sup>[1]</sup>                     | NL <sup>[1]</sup> | NL <sup>[1]</sup>      |
|   | STEL | NL <sup>[1]</sup>      | NL <sup>[1]</sup>                     | NL <sup>[1]</sup> | NL <sup>[1]</sup>      |
| Hydrocarbon Propellant  | TWA  | 1000 ppm               | 1800 mg/m <sup>3</sup>                | 800 ppm           | NL                     |
|   | STEL | NL <sup>[1]</sup>      | NL <sup>[1]</sup>                     | NL <sup>[1]</sup> | NL <sup>[1]</sup>      |
| n-Hexane  | TWA  | 500 ppm <sup>[2]</sup> | 1800 mg/m <sup>3</sup> <sup>[2]</sup> | 50 ppm            | 176 mg/m <sup>3</sup>  |
|   | STEL | NL <sup>[1]</sup>      | NL <sup>[1]</sup>                     | NL <sup>[1]</sup> | NL <sup>[1]</sup>      |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | TWA  | 400 ppm                | NL                                    | 400 ppm           | NL                     |
|   | STEL | NL <sup>[1]</sup>      | NL <sup>[1]</sup>                     | NL <sup>[1]</sup> | NL <sup>[1]</sup>      |
| n-Heptane   | TWA  | 500 ppm <sup>[2]</sup> | 2000 mg/m <sup>3</sup> <sup>[2]</sup> | 400 ppm           | 1640 mg/m <sup>3</sup> |
|   | STEL | NL <sup>[1]</sup>      | NL <sup>[1]</sup>                     | 500 ppm           | 2050 mg/m <sup>3</sup> |
| Cyclohexane   | TWA  | 300 ppm <sup>[2]</sup> | 1050 mg/m <sup>3</sup> <sup>[2]</sup> | 100 ppm           | 334 mg/m <sup>3</sup>  |
|   | STEL | NL <sup>[1]</sup>      | NL <sup>[1]</sup>                     | NL <sup>[1]</sup> | NL <sup>[1]</sup>      |
| Methanol  | TWA  | 200 ppm                | 260 mg/m <sup>3</sup>                 | 200 ppm           | 262 mg/m <sup>3</sup>  |
|   | STEL | NL <sup>[1]</sup>      | NL <sup>[1]</sup>                     | 250 ppm           | 327 mg/m <sup>3</sup>  |

#### Footnotes:

- NL = Not Listed
- OSHA limits per 29 CFR 1910.1000 Table Z-1 & Z-2

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/20/2009  
 MSDS No: SPLVA  
 Date Revised: 11/20/2009  
 Revision No: 5

## CONBOND C5800 Aerosol Adhesive (item #C580013C)

**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 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 butyl rubber.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Aerosol

**ODOR:** Solvent-like

**COLOR:** Clear

**PERCENT VOLATILE:** 80.9

**Notes:** by weight

**BOILING POINT:** 56°C (133°F)

**FLASHPOINT AND METHOD:** -104°C (-156°F) CC

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

**DENSITY:** 6.18 lbs/gal

**SPECIFIC GRAVITY:** 0.741

**(VOC):** 504.900 gr/L EPA Method 24 VOC

**Notes:** Photochemically Reactive Only VOC: 392.2 gr/L

**COMMENTS:** 0.48 lb VHAP/lb Solid  
 9.2% by weight HAP

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Stable.

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/20/2009  
 MSDS No: SPLVA  
 Date Revised: 11/20/2009  
 Revision No: 5

## CONBOND C5800 Aerosol Adhesive (item #C580013C)

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

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks, static electricity and other sources of ignition.

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

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

**INCOMPATIBLE MATERIALS:** Avoid contact with peroxides, oxidizing agents such as nitric acid, perchloric acid, chromium trioxide, chlorosulfonic acid, silica gel, alumina, and strong acids or amines.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

| Chemical Name   | ORAL LD <sub>50</sub> (rat) | DERMAL LD <sub>50</sub> (rabbit) | INHALATION LC <sub>50</sub> (rat) |
|---|-----------------------------|----------------------------------|-----------------------------------|
| Methyl Acetate  | 6975 mg/kg (rats)           | > 5000 mg/kg (rabbits)           | > 16000 ppm (4-hr dose - rat)     |
| Dimethyl Ether  | No data                     | No data                          | 164000 ppm (4-hr dose - rat)      |
| Hydrocarbon Propellant  | No data                     | No data                          | No data                           |
| n-Hexane  | 25000 mg/kg                 | No data                          | 48000 ppm                         |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | > 2000 mg/kg                | > 2000 mg/kg                     | > 5000 ppm (1-hr dose)            |
| n-Heptane   | > 2000 mg/kg                | > 2000 mg/kg                     | > 5000 ppm (1-hr dose)            |
| Cyclohexane   | 12705 mg/kg                 | No data                          | No data                           |
| Methanol  | No data                     | No data                          | 64000 ppm (4-hr dose)             |

#### CARCINOGENICITY

**IARC:** Not Applicable

**NTP:** Not Applicable

**OSHA:** Not Applicable

**Notes:** None

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

**CORROSIVITY:** Not Applicable

**SENSITIZATION:** Not Applicable

**NEUROTOXICITY:** Not Applicable

**GENETIC EFFECTS:** Not Applicable

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/20/2009  
MSDS No: SPLVA  
Date Revised: 11/20/2009  
Revision No: 5

## CONBOND C5800 Aerosol Adhesive (item #C580013C)

### 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:** ORM-D

**NAERG:** 115

**MARINE POLLUTANT #1:** None

### 15. REGULATORY INFORMATION

#### UNITED STATES

#### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

ORM-D

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

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

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

| Chemical Name | Wt.%   | CAS         |
|---------------|--------|-------------|
| n-Hexane      | 7 - 13 | 000110-54-3 |
| Cyclohexane   | 1 - 5  | 000110-82-7 |

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

| Chemical Name | Wt.%   | CERCLA RQ  |
|---------------|--------|------------|
| n-Hexane      | 7 - 13 | 5,000 lbs. |
| Cyclohexane   | 1 - 5  | 1,000 lbs. |
| Methanol      | < 0.5  | 5,000 lbs. |

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/20/2009  
MSDS No: SPLVA  
Date Revised: 11/20/2009  
Revision No: 5

## CONBOND C5800 Aerosol Adhesive (item #C580013C)

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

| Chemical Name   | CAS         | TSCA SECTION |
|---|-------------|--------------|
| Methyl Acetate  | 000079-20-9 |              |
| Dimethyl Ether  | 000115-10-6 |              |
| Hydrocarbon Propellant  | Mixture     |              |
| n-Hexane  | 000110-54-3 |              |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | 064742-89-8 |              |
| n-Heptane   | 000142-82-5 | 12b,         |
| Cyclohexane   | 000110-82-7 |              |
| Methanol  | 000067-56-1 |              |

### CLEAN AIR ACT

| Chemical Name | Wt. %  | CAS         |
|---------------|--------|-------------|
| n-Hexane      | 7 - 13 | 000110-54-3 |
| Methanol      | < 0.5  | 000067-56-1 |

### STATES WITH SPECIAL REQUIREMENTS

| Chemical Name   | Requirements   |
|---|--|
| Dimethyl Ether  | New Jersey Right to Know List  |
| Hydrocarbon Propellant  | New Jersey Right to Know List<br>Pennsylvania Right to Know List   |
| n-Hexane  | New Jersey Right to Know List<br>Pennsylvania Right to Know List<br>Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | Pennsylvania Right to Know List  |
| n-Heptane   | New Jersey Right to Know List<br>Pennsylvania Right to Know List   |
| Cyclohexane   | New Jersey Right to Know List<br>Pennsylvania Right to Know List<br>Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical |
| Methanol  | New Jersey Right to Know List<br>Pennsylvania Right to Know List<br>Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical |

# MATERIAL SAFETY DATA SHEET



Date Issued: 11/20/2009  
 MSDS No: SPLVA  
 Date Revised: 11/20/2009  
 Revision No: 5

## CONBOND C5800 Aerosol Adhesive (item #C580013C)

### CANADA

#### WHMIS HAZARD SYMBOL AND CLASSIFICATION



Flammable Gas



Compressed Gas



Toxic

### EUROPEAN COMMUNITY

#### EEC LABEL SYMBOL AND CLASSIFICATION



"F+" - Extremely flammable



"Xn" - Harmful



"N" - Dangerous for the environment

### 16. OTHER INFORMATION

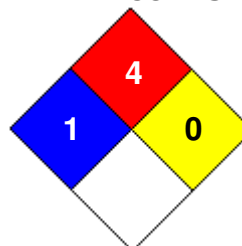
**INFORMATION CONTACT:** (781) 878-7015

**REVISION SUMMARY:** Revision #: 5 This MSDS replaces the November 20, 2009 MSDS. Any changes in information are as follows: In Section 1 Comments

#### HMIS RATING

|                             |          |          |
|-----------------------------|----------|----------|
| <b>HEALTH:</b>              | *        | <b>1</b> |
| <b>FLAMMABILITY:</b>        |          | <b>4</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

**MATERIAL SAFETY DATA SHEET****Date Issued: 11/20/2009****MSDS No: SPLVA****Date Revised: 11/20/2009****Revision No: 5****CONBOND C5800 Aerosol Adhesive (item #C580013C)**

---

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:**

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of ITW TACC. The data on this sheet relates only to the specific material designated herein. ITW TACC assumes no legal responsibility for use or reliance upon these data.