

MATERIAL SAFETY DATA SHEET



Date Issued: 11/18/2009
 MSDS No: SP54
 Date Revised: 11/18/2009
 Revision No: 12

CONBOND C5800 Flat Form Contact Adhesive

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CONBOND C5800 Flat Form Contact Adhesive
ALTERNATE TRADE NAME(S): C5800-05C, C5800-05G, C5800-55C, C5800-55G

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

"Xi" - Irritant

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.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt.% | CAS | EINECS | Classification |
|----------------|---------|-------------|-----------|----------------|
| Methyl Acetate | 65 - 80 | 000079-20-9 | 201-185-2 | F, Xi; 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: -13°C (8.6°F) Closed Cup

FLAMMABLE LIMITS: 3.1 to 16.0

AUTOIGNITION TEMPERATURE: 455°C (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

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.

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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.

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

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) | | | | | |
|---|------|-----------------|-----------------------|-----------|-----------------------|
| | | EXPOSURE LIMITS | | | |
| | | OSHA PEL | | ACGIH TLV | |
| Chemical Name | | ppm | mg/m ³ | ppm | mg/m ³ |
| Methyl Acetate | TWA | 200 ppm | 610 | 200 ppm | 606 |
| | STEL | NL [1] | NL [1] | 250 ppm | 757 |
| Methanol | TWA | 200 ppm | 260 mg/m ³ | 200 ppm | 262 mg/m ³ |
| | STEL | NL [1] | NL [1] | 250 ppm | 327 mg/m ³ |
| Footnotes: | | | | | |
| 1. NL = Not Listed | | | | | |

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: Liquid

ODOR: Solvent-like

COLOR: Clear or Green

PERCENT VOLATILE: 70.0

Notes: by weight

BOILING POINT: 56°C (133°F)

FLASHPOINT AND METHOD: -13°C (8.6°F) Closed Cup

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

DENSITY: 7.91 lbs/gal

SPECIFIC GRAVITY: 0.949

(VOC): 2.300 gr/L EPA Method 24 VOC

Notes: Photochemically Reactive Only VOC: 0.7 gr/L

COMMENTS: 0.002 lb VHAP/lb Solid
 0.1% by weight HAP

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable.

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 and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE

| Chemical Name | ORAL LD ₅₀ (rat) | DERMAL LD ₅₀ (rabbit) | INHALATION LC ₅₀ (rat) |
|----------------|-----------------------------|----------------------------------|-----------------------------------|
| Methyl Acetate | 6975 mg/kg (rats) | > 5000 mg/kg (rabbits) | > 16000 ppm (4-hr dose - rat) |
| 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

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NEUROTOXICITY: Not Applicable

GENETIC EFFECTS: Not Applicable

TERATOGENIC EFFECTS: Not Applicable

MUTAGENICITY: 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: III

NAERG: 128

MARINE POLLUTANT #1: None

OTHER SHIPPING INFORMATION: contains (Methyl Acetate, Methyl Alcohol)

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

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DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable Liquid

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

| Chemical Name | Wt.% | CERCLA RQ |
|---------------|-------|------------|
| Methanol | < 0.5 | 5,000 lbs. |

TSCA (TOXIC SUBSTANCE CONTROL ACT)

| Chemical Name | CAS |
|----------------|-------------|
| Methyl Acetate | 000079-20-9 |
| Methanol | 000067-56-1 |

CLEAN AIR ACT

| Chemical Name | Wt.% | CAS |
|---------------|-------|-------------|
| Methanol | < 0.5 | 000067-56-1 |

STATES WITH SPECIAL REQUIREMENTS

| Chemical Name | Requirements |
|---------------|--|
| Methanol | New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical |

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Flammable Liquid



Toxic

EUROPEAN COMMUNITY

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EEC LABEL SYMBOL AND CLASSIFICATION



"F" - Highly flammable



"Xi" - Irritant

16. OTHER INFORMATION

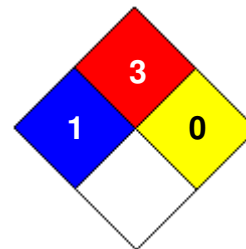
INFORMATION CONTACT: (781) 878-7015

REVISION SUMMARY: Revision #: 12 This MSDS replaces the November 18, 2009 MSDS. Any changes in information are as follows: In Section 1 Comments

HMIS RATING

| | | |
|-----------------------------|----------|----------|
| HEALTH: | * | 1 |
| FLAMMABILITY: | | 3 |
| PHYSICAL HAZARD: | | 0 |
| PERSONAL PROTECTION: | 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

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