



# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 5/Dec/2016

Version: 1

Language: en-CA,US

Date of print: 11/Jan/2017

## Fast-Bond

Material number 133090

Page: 1 of 8

## 1. Product and company identification

### Product identifier

Trade name: Fast-Bond

### Relevant identified uses of the substance or mixture and uses advised against

General use: One-component adhesive and sealing agent.  
Reserved for industrial and professional use.

### Details of the supplier of the safety data sheet

Company name: WEICON Inc.  
Street/POB-No.: 20 Steckle Place, Unit 20  
Postal Code, city: Kitchener, Ontario N2E 2C3, CA  
WWW: www.weicon.ca  
E-mail: info@weicon.ca  
Telephone: +1-519-896-5252  
Telefax: +1-519-896-5254  
Dept. responsible for information:  
Product-Safety-Department  
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

### Emergency phone number

**EMERGENCY CONTACT – Canada (24h): Tel: ++1 866 928 0789 (Toll free)**

**Transport:**

**TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: ++1 866 928 0789 (Toll free)**

## 2. Hazards identification

### Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: solid  
Form: pasty  
Color: light beige  
Odor: characteristic  
Classification: Respiratory Sensitizer 1; Sensitization - skin 1; Carcinogenicity 2;  
Specific Target Organ Toxicity (Repeated Exposure) 2;

Hazard symbols:



Signal word:

**Danger**

Hazard statements:

May cause an allergic skin reaction.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.



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Precautionary statements: Obtain special instructions before use.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection.  
In case of inadequate ventilation wear respiratory protection.  
IF ON SKIN: Wash with plenty of water/soap.  
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see 'First aid' on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
Take off contaminated clothing and wash it before reuse.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.  
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
Provide adequate ventilation, and local exhaust as needed.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions.

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 9016-87-9	4,4'- Diphenylmethane diisocyanate	1 - 10 %	Acute Toxicity 4 (inhalative). Skin Irritation 2. Eye Irritation 2A. Respiratory Sensitizer 1. Sensitization - skin 1. Carcinogenicity 2. Specific Target Organ Toxicity (Single Exposure) 3. Specific Target Organ Toxicity (Repeated Exposure) 2.

## 4. First aid measures

General information: Take off immediately all contaminated clothing and wash it before reuse.  
In case of inhalation: Move victim to fresh air.  
Seek medical attention.  
Following skin contact: After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician.  
After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.  
After swallowing: Rinse mouth.  
Never give anything by mouth to an unconscious person.  
Consult physician.



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### Most important symptoms and effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

### Information to physician

Treat symptomatically.

## 5. Fire fighting measures

Flash point/flash point range:

not determined

Auto-ignition temperature: not determined

Suitable extinguishing media:

Extinguishing is to be in accordance with the surrounding fire.

Extinguishing media which must not be used for safety reasons:

None known

### Specific hazards arising from the chemical

In case of fire may be liberated: Isocyanate vapors, traces of hydrogen cyanide, nitrous fumes, carbon monoxide, hydrogen chloride, carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Do not allow fire water to penetrate into surface or ground water. Suppress gases/vapours/mists with water spray jet.

## 6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Wear appropriate protective equipment. Avoid breathing vapors/spray. Avoid exposure. Eliminate all ignition sources if safe to do so. Take off immediately all contaminated clothing and wash it before reuse. Keep unprotected people away.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.

Methods for clean-up:

Take up mechanically, placing in appropriate containers for disposal.  
Recommended cleansing agent: Acetone

## 7. Handling and storage

### Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Wear appropriate protective equipment. Avoid breathing vapors/spray. Avoid exposure - obtain special instructions before use. Wash hands before breaks and after work. Take off immediately all contaminated clothing and wash it before reuse. Keep unprotected people away. Avoid contact with skin and eyes.

Precautions against fire and explosion:

Keep away from heat sources, sparks and open flames.



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### Storage

Requirements for storerooms and containers:

Keep away from heat sources, sparks and open flames.  
Protect against direct sunlight. Protect from moisture contamination. Keep container tightly closed.  
Store at room temperature.  
Storage stability: 1 year.  
Qualified materials: plastic.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
9016-87-9	4,4'-Diphenylmethane diisocyanate	Canada, Alberta: OEL 8 hour	0.07 mg/m <sup>3</sup> ; 0.005 ppm
		Canada, Québec: VEMP	0.051 mg/m <sup>3</sup> ; 0.005 ppm (4,4'-Methylenediphenyl diisocyanate - CAS 101-68-8)
		NIOSH: Ceiling	0.2 mg/m <sup>3</sup> ; 0.02 ppm (4,4'-Methylenediphenyl diisocyanate - CAS 101-68-8)
		USA: NIOSH: TWA	0.05 mg/m <sup>3</sup> ; 0.005 ppm (4,4'-Methylenediphenyl diisocyanate - CAS 101-68-8)

### Engineering controls

Provide adequate ventilation, and local exhaust as needed.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.  
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Fluororubber (Viton)  
Layer thickness: 0.7 mm  
Breakthrough time: 480 min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Wash hands before breaks and after work.  
Wear appropriate protective equipment. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Avoid breathing vapors/spray. When using do not eat, drink or smoke.



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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: pasty Color: light beige
Odor:	characteristic
Odor threshold:	not determined
pH value:	not applicable
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point/flash point range:	not determined
Evaporation rate:	not determined
Flammability:	This product is non-flammable.
Explosion limits:	LEL (Lower Explosion Limit): not determined UEL (Upper Explosive Limit): not determined
Vapor pressure:	not determined
Density:	at 20 °C: 1.475 g/cm <sup>3</sup>
Solubility:	miscible with most organic solvents
Water solubility:	practically insoluble
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not determined
Thermal decomposition:	No data available
Viscosity, dynamic:	not determined
Explosive properties:	No chemical group associated with explosive properties
Oxidizing characteristics:	No chemical group associated with oxidizing properties

## 10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Non, if handled and stored appropriately.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect against direct sunlight. Protect from moisture contamination.
Incompatible materials:	No data available
Hazardous decomposition products:	Toxic gases/vapours. Isocyanate vapors, traces of hydrogen cyanide, nitrous fumes, carbon monoxide, hydrogen chloride, carbon dioxide.
Thermal decomposition:	No data available



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## 11. Toxicological information

### Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.  
Acute toxicity (oral): Based on available data, the classification criteria are not met.  
Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.  
Minor irritation effect - does not require labeling.  
Eye damage/irritation: Based on available data, the classification criteria are not met.  
Minor irritation effect - does not require labeling.  
Sensitisation to the respiratory tract: Respiratory Sensitizer 1 = May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.  
Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Carcinogenicity 2 = Suspected of causing cancer.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): Lack of data.  
Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) 2 = May cause damage to organs through prolonged or repeated exposure.  
Aspiration hazard: Lack of data.

Other information: Information about 4,4'-Diphenylmethane diisocyanate:  
LD50 Rat, oral: > 10000 mg/kg  
LD50, Rabbit, dermal: > 5000 mg/kg  
LC50, Rat, inhalative: 10 - 20 mg/L/4h (vapor)

### Symptoms

In case of ingestion: Nausea

## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: Bacterial toxicity: EC50:> 100 mg/L /3h (OECD 209)  
Fish toxicity: LC50: > 1000 mg/L/96 h.

Further details: Information about 4,4'-Methylenediphenyl diisocyanate:  
Biodegradation: < 60 %. (OECD 302 C) Product is not readily biodegradable.

### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

### Additional ecological information

Volatile organic compounds (VOC):  
0.9 % by weight = 13.2 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains.



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### 13. Disposal considerations

#### Product

Recommendation: Dispose of waste according to applicable legislation.

#### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.

### 14. Transport information

#### USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

#### Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

#### Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

#### Air transport (IATA)

Proper shipping name: Not restricted

#### Further information

No dangerous good in sense of these transport regulations.

### 15. Regulatory information

#### National regulations - Canada

No data available

#### National regulations - U.S. Federal Regulations

4,4'-Diphenylmethane disocyanate: TSCA Inventory: listed; EPA flags XU

TSCA HPVC: not listed

CFR § 172.101, Appendix A, DOT (Department of Transportation):

- MDI Reportable Quantity (RQ): 5000 lbs (= 2270 kg)

Carcinogen Status:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Other Environmental Laws:

SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard

#### National regulations - U.S. State Regulations

4,4'-Diphenylmethane disocyanate: California Proposition 65 code: -

Delaware Air Quality Management List:

DRQ: 100 - RQ State: State requirement differs from Federal

### 16. Other information

Text for labeling: Contains 1 - 10 % 4,4'-Diphenylmethane disocyanate. Safety data sheet available on request.



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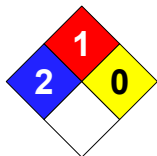
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Hazard rating systems:



NFPA Hazard Rating:  
Health: 2 (Moderate)  
Fire: 1 (Slight)  
Reactivity: 0 (Minimal)  
HMIS Version III Rating:  
Health: 2 (Moderate) - Chronic effects  
Flammability: 1 (Slight)  
Physical Hazard: 0 (Minimal)  
Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
		X

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### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.