

**JM Closed-cell Spray Polyurethane Foam (cc SPF) – Component B  
(Canada)**

Version 1.2

Revision Date 05/14/2018

Print Date 05/14/2018

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Trade name : JM Corbond® III – Component B, JM Corbond® III 2.8 – Component B

Manufacturer or supplier's details

Company : Johns Manville  
Address : P.O. Box 5108  
Denver, CO USA 80127  
Telephone : +1 303-978-2000 8:00 a.m.-5:00 p.m. M-F  
Emergency telephone number : 1-800-424-9300 (Chemtrec, in English)

Prepared by : productsafety@jm.com

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Specific target organ toxicity : Category 2  
- repeated exposure

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements : **Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
**Response:**  
P314 Get medical advice/ attention if you feel unwell.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Additional Labelling**

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 4.02 %

**Other hazards**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical name	CAS-No.	Concentration (%)
1,1,1,3,3-pentafluoropropane (HFC-245fa)	460-73-1	>= 5 - < 10
tris(2-chloro-1-methylethyl) phosphate	13674-84-5	>= 1 - < 5
triethyl phosphate	78-40-0	>= 1 - < 5
trans-1,2-dichloroethylene	156-60-5	>= 1 - < 5
diethylmethylbenzenediamine	68479-98-1	>= 1 - < 5

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.  
Immediately flush eye(s) with plenty of water.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.  
Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : None known.

### SECTION 5. FIREFIGHTING MEASURES

- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Standard procedure for chemical fires.
- Further information : Standard procedure for chemical fires.
- Special protective equipment : Wear self-contained breathing apparatus for firefighting if



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and other resources (some available in Spanish and French) at the following website hyperlinks: <https://www.spraypolyurethane.org/resources/> and <https://www.spraypolyurethane.org/additional-resources/>.

**Personal protective equipment**

Respiratory protection : Preferably a compressed airline breathing apparatus.

Hand protection

Remarks : Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.  
Written instructions for handling must be available at the work place.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : blue

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

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Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Hazardous decomposition products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Acute toxicity estimate : > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg

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Method: Calculation method

**Acute toxicity****Components:****tris(2-chloro-1-methylethyl) phosphate:**

Acute oral toxicity : LD50 (Rat): 632 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4.6 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): &gt; 5,000 mg/kg

**Acute toxicity****trans-1,2-dichloroethylene:**

Acute oral toxicity : LD50 (Rat): 7,902 mg/kg

LD50 (Mouse): 2,122 mg/kg

Acute inhalation toxicity : LC50 (Rat): 96 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD0 (Rabbit): &gt; 5,000 mg/kg

**Acute toxicity****diethylmethylbenzenediamine:**

Acute oral toxicity : LD50 (Rat): 472 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2.45 mg/l  
Exposure time: 1 hLC50 (Rat): > 2.45 mg/l  
Exposure time: 1 h

Acute dermal toxicity : LD50 (Rabbit): &gt; 1,000 mg/kg

**Skin corrosion/irritation****Components:****tris(2-chloro-1-methylethyl) phosphate:**

Species: Rabbit

Result: No skin irritation

**Skin corrosion/irritation****diethylmethylbenzenediamine:**

Species: Rabbit

Exposure time: 4 h

Result: No skin irritation

**Serious eye damage/eye irritation****Components:**

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**tris(2-chloro-1-methylethyl) phosphate:**

Species: Rabbit

Result: Mild eye irritation

Exposure time: 24 h

Method: Draize Test

**Serious eye damage/eye irritation****trans-1,2-dichloroethylene:**

Species: Rabbit

Result: Eye irritation

**Serious eye damage/eye irritation****diethylmethylbenzenediamine:**

Species: Rabbit

Result: irritating

**Respiratory or skin sensitisation****Components:****tris(2-chloro-1-methylethyl) phosphate:**

Result: Does not cause skin sensitisation.

**Germ cell mutagenicity****Components:****tris(2-chloro-1-methylethyl) phosphate:**Germ cell mutagenicity- : Not mutagenic in Ames Test  
Assessment**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Components:****tris(2-chloro-1-methylethyl) phosphate:**Effects on fertility : Species: Rat, male  
Application Route: Inhalation

Reproductive toxicity - : Experiments have shown reproductive toxicity effects in male

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Assessment and female laboratory animals.  
Did not show teratogenic effects in animal experiments.

**STOT - repeated exposure****Components:****diethylmethylenediamine:**

Assessment: May cause damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity****Components:****tris(2-chloro-1-methylethyl) phosphate:**

Species: Rat, male

NOAEL: 36 mg/kg

Application Route: Oral

Exposure time: 90 d

**diethylmethylenediamine:**

Species: Rabbit, female

NOAEL: 1 mg/kg

Application Route: Skin contact

Species: Rat

NOAEL: 10 mg/l

Application Route: inhalation (gas)

**Further information****Product:**

Remarks: No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****tris(2-chloro-1-methylethyl) phosphate:**

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 47 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia (water flea)): 32 mg/l

**trans-1,2-dichloroethylene:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 140 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 220 mg/l



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aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 798 mg/l  
Exposure time: 96 h

EC50 (Skeletonema costatum (marine diatom)): 712 mg/l  
Exposure time: 96 h

**Persistence and degradability****Components:****tris(2-chloro-1-methylethyl) phosphate:**

Biodegradability : Result: Not readily biodegradable.

**trans-1,2-dichloroethylene:**Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 8 %  
Exposure time: 28 d**Bioaccumulative potential****Components:****tris(2-chloro-1-methylethyl) phosphate:**Partition coefficient: n-  
octanol/water : log Pow: 2.68**trans-1,2-dichloroethylene:**Partition coefficient: n-  
octanol/water : log Pow: 2.06**Mobility in soil**

No data available

**Other adverse effects****Product:**Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by the  
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +  
B).Additional ecological  
information : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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**Disposal methods**

- Disposal of residual product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

These products are not classified as dangerous goods according to international transport regulations.

**SECTION 15. REGULATORY INFORMATION**

**TSCA list**

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) : diethylmethybenzenediamine

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
trans-1,2-dichloroethylene	156-60-5	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

ethane-1,2-diol	107-21-1
diethylene glycol	111-46-6

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

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ethane-1,2-diol	107-21-1
diethylene glycol	111-46-6

**US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

**SECTION 16. OTHER INFORMATION****Further information**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.