

**Microfiber Aerospace Products**

Version 1.1

Revision Date 03/31/2015

Print Date 03/31/2015

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Trade name : Q-Fiber® Felt, Q-Fiber® Bulk

Manufacturer or supplier's details

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

Prepared by : productsafety@jm.com

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

Carcinogenicity : Category 2

**GHS Label element**

Hazard pictograms :



Signal word : Warning

Hazard statements : H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.  
**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact. Abrasion effects should subside after cessation of exposure.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

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**Chemical nature**

Felt formed from 98.5+% pure amorphous silica fibers using a water deposition process.

**Hazardous components**

| Chemical Name                    | CAS-No.      | Concentration (%) |
|----------------------------------|--------------|-------------------|
| Pure amorphous silica microfiber | Not Assigned | > 98.5 - <= 100   |

**SECTION 4. FIRST AID MEASURES**

- General advice : Get medical attention if symptoms occur.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.  
If on skin, rinse well with water.  
Get medical attention if irritation develops and persists.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : If symptoms persist, call a physician.  
Rinse mouth with water to remove dust or fibers and drink plenty of water to help reduce irritation.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Keep in a dry, cool place.

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Materials to avoid : No materials to be especially mentioned.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

| Components                       | CAS-No.      | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis                       |
|----------------------------------|--------------|----------------------------------|---------------------------------------------------|-----------------------------|
| Pure amorphous silica microfiber | Not Assigned | TWA                              | 1 fibre/cm <sup>3</sup>                           | Recommend ed Exposure Level |
| Nuisance dust                    | Not Assigned | TWA (Total particulate)          | 15 mg/m <sup>3</sup>                              | OSHA                        |
|                                  |              | TWA (Respirable fraction)        | 5 mg/m <sup>3</sup>                               | OSHA                        |

JM has internally adopted an occupational exposure limit of 1 f /cc as an 8 hour Time Weighted Average.

**Personal protective equipment**

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection  
Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Glass Fiber Nonwoven

Colour : white

Odour : odourless

Odour Threshold : No data available

pH : Not applicable

Melting point/range : Not applicable

Boiling point/boiling range : Not applicable

Flash point : Not applicable

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|                                        |                     |
|----------------------------------------|---------------------|
| Evaporation rate                       | : Not applicable    |
| Flammability (solid, gas)              | : No data available |
| Upper explosion limit                  | : Not applicable    |
| Lower explosion limit                  | : Not applicable    |
| Vapour pressure                        | : Not applicable    |
| Relative vapour density                | : Not applicable    |
| Relative density                       | : No data available |
| Density                                | : Not applicable    |
| Solubility(ies)                        |                     |
| Water solubility                       | : Not applicable    |
| Solubility in other solvents           | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Auto-ignition temperature              | : No data available |
| Thermal decomposition                  | : Not applicable    |
| Viscosity                              |                     |
| Viscosity, dynamic                     | : Not applicable    |
| Viscosity, kinematic                   | : Not applicable    |

**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 | : Stable under recommended storage conditions.<br>No hazards to be specially mentioned. |
| Conditions to avoid                | : No data available                                                                     |

**SECTION 11. TOXICOLOGICAL INFORMATION****Further information****Product:**

Remarks: Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : Due to the properties of the product, a hazard to the environment may not be expected.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Disposal of residual product : In accordance with local and national regulations.

**SECTION 14. TRANSPORT INFORMATION****International transport regulations**

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

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

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).

**California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**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.

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**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.