

**Uncured Water Repellent Phenolic Moldable Fiberglass Aerospace  
OEM Insulation**

Version 3.2

Revision Date 05/05/2021

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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Trade name : MICROLITE® AA Uncured – Water Repellent Phenolic

## Manufacturer or supplier's details

Company : Johns Manville  
Address : P.O. Box 5108  
Denver, CO USA 80127Telephone : +1-303-978-2000  
Emergency telephone number : 24-Hour Number: +1-800-424-9300 (CHEMTREC)Company : Johns Manville Canada Inc.  
Address : 5301 42 Avenue  
Innisfail, AB Canada T4G 1A2  
Telephone : +1-303-978-2000  
Emergency telephone number : 24-Hour Number: +1-800-424-9300 (CHEMTREC)

## Recommended use of the chemical and restrictions on use

Recommended use : thermal and/or acoustic insulation  
Restrictions on use : For industrial use only.  
Prepared by : productsafety@jm.com**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS 2012) and the  
Hazardous Products Regulations (WHMIS 2015)**

Skin sensitisation : Category 1

Carcinogenicity : Category 1B

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H350 May cause cancer.Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing must not be allowed out of

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the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards**

None known.

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

**Chemical nature**

Glass fiber product

**Hazardous components**

Chemical name	CAS-No.	Concentration (%)
formaldehyde	50-00-0	>= 0.1 - < 1

Actual concentration or concentration range is withheld as a trade secret

**Relevant ingredients**

Chemical name	CAS-No.	Concentration (%)
non-biopersistent (biosoluble) glass fibers	Not Assigned	>= 70 - <= 90 %
uncured phenol-urea-formaldehyde (PUF) binder resin	Not Assigned	>= 10 - <= 30 %

**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 : Remove to fresh air immediately. Get medical attention immediately.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : In case of contact, flush skin with plenty of water for at least 5 minutes while removing contaminated clothing and shoes.  
Call a physician if irritation develops or persists.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes.  
If easy to do, remove contact lens, if worn.

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If swallowed	:	Protect unharmed eye. If eye irritation persists, consult a specialist. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician or Poison Control Centre immediately.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. May cause cancer.
Protection of first-aiders	:	If potential for exposure exists refer to Section 8 for specific personal protective equipment.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO <sub>2</sub> ) Water spray Foam Dry chemical
Unsuitable extinguishing media	:	None known.
Hazardous combustion products	:	carbon oxides nitrogen oxides ammonia Formaldehyde
Specific extinguishing methods	:	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	:	Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and cleaning up	:	Take up mechanically. Pick up and arrange disposal without creating dust.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Use only in area provided with appropriate exhaust ventilation. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.
Conditions for safe storage	:	Keep tightly closed in a dry, cool and well-ventilated place.
Materials to avoid	:	No materials to be especially mentioned.

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Recommended storage temperature : 4 - 10 °C  
 Storage period : 30 Days  
 Further information on storage stability : Stable under recommended storage conditions.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
formaldehyde	50-00-0	C	0.3 ppm	ACGIH
		TWA	0.016 ppm (Formaldehyde)	NIOSH REL
		C	0.1 ppm (Formaldehyde)	NIOSH REL
		PEL	0.75 ppm	OSHA CARC
		STEL	2 ppm	OSHA CARC
		TWA	0.016 ppm	NIOSH REL
		C	0.1 ppm	NIOSH REL
		TWA	0.1 ppm	ACGIH
		STEL	0.3 ppm	ACGIH
		Synthetic vitreous fibers, glass wool fibers	Not Assigned	TWA (fibers)
Particulates (insoluble or poorly soluble) Not Otherwise Specified (PNOS)	Not Assigned	TWA (respirable particles)	3 mg/m <sup>3</sup>	ACGIH
		TWA (inhalable particles)	10 mg/m <sup>3</sup>	ACGIH
		Particulates Not Otherwise Regulated (PNOR)	Not Assigned	TWA (respirable)
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA
Fibrous glass dust	Not Assigned	TWA	3 fibers/cm <sup>3</sup>	NIOSH REL
		TWA (total)	5 mg/m <sup>3</sup>	NIOSH REL

#### Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air

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	supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection	
Material	: Protective gloves
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	: Wear safety glasses with side shields or goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	: Wear protective clothing, such as long-sleeved shirts and pants. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
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	: blanket
Colour	: orange
Odour	: slight
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	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Solubility(ies)	
Water solubility	: Not applicable
Solubility in other solvents	: No data available
Partition coefficient: n-	: No data available

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octanol/water  
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 dangerous reaction known under conditions of normal use.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : None known.  
Conditions to avoid : Heat  
Incompatible materials : Strong oxidizing agents  
Acids  
Hazardous decomposition products : Formaldehyde

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

Not classified based on available information.

**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  
Method: Calculation method

**Components:****formaldehyde:**

Acute oral toxicity : LD50 (Rat, male): 460 mg/kg  
Method: OECD Test Guideline 401  
Acute inhalation toxicity : LC50 (Rat, male and female): 0.568 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

**Skin corrosion/irritation****Components:****formaldehyde:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Corrosive after 3 minutes to 1 hour of exposure

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### Serious eye damage/eye irritation

#### Components:

##### **formaldehyde:**

Species: Rabbit

Result: Irreversible effects on the eye

Respiratory sensitisation: Not classified based on available information.

### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

#### Product:

Remarks: May cause sensitisation of susceptible persons by skin contact.

### Respiratory or skin sensitisation

#### Components:

##### **formaldehyde:**

Test Type: local lymph node assay (LLNA)

Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

### Germ cell mutagenicity

#### Components:

##### **formaldehyde:**

Germ cell mutagenicity-  
Assessment: Positive result(s) from in vivo mammalian somatic cell  
mutagenicity tests.

### Carcinogenicity

#### Components:

##### **formaldehyde:**

Carcinogenicity -  
Assessment

: Sufficient evidence of carcinogenicity in animal experiments

##### **IARC**

Group 1: Carcinogenic to humans

formaldehyde

50-00-0

##### **OSHA**

OSHA specifically regulated carcinogen

formaldehyde

50-00-0

##### **NTP**

Known to be human carcinogen

formaldehyde

50-00-0

### Aspiration toxicity

Not classified based on available information.

### Further information

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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. Abrasion effects should subside after cessation of exposure.

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

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****formaldehyde:**Partition coefficient: n- : log Pow: 0.35 (25 °C)  
octanol/water**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).**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**Waste from residues : Dispose of contents/container to an approved facility in  
accordance with local, regional, national and international  
regulations.**SECTION 14. TRANSPORT INFORMATION****International transport regulations**

Land transport

USDOT: Not classified as a dangerous good under transport regulations

TDG: Not classified as a dangerous good under transport regulations

Sea transport

IMDG: Not classified as a dangerous good under transport regulations



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Air transport  
IATA/ICAO: Not classified as a dangerous good under transport regulations

### SECTION 15. REGULATORY INFORMATION

#### TSCA list

TSCA - 5(a) Significant New Use Rule List of Chemicals : Not relevant

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D) : Not relevant

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

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
formaldehyde	50-00-0	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
formaldehyde	50-00-0	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Respiratory or skin sensitisation  
Carcinogenicity

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

formaldehyde	50-00-0	0.1 - 1 %
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#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (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).

This product does not contain any chemicals 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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**California Prop. 65**

 **WARNING:** This product can expose you to chemicals including formaldehyde, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

TSCA : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

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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.