

## JM Single Ply LVOC Caulk - White

Version 1.1

Revision Date 03/31/2020

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : JM Single Ply LVOC Caulk - White

#### Manufacturer or supplier's details

 Company : Johns Manville  
 Address : P.O. Box 5108  
                   Denver, CO USA 80127  
 Telephone : +1-303-978-2000  
 Emergency telephone : +1-800-424-9300 (CHEMTREC)  
 number

 Company : Johns Manville Canada Inc.  
 Address : 5301 42 Avenue  
                   Innisfail, AB Canada T4G 1A2  
 Telephone : +1-303-978-2000  
 Emergency telephone : +1-800-424-9300 (CHEMTREC)  
 number

#### Recommended use of the chemical and restrictions on use

Recommended use : Sealant

Restrictions on use : For professional and industrial installation and 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)

Flammable liquids : Category 2

Skin irritation : Category 2

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1A

Aspiration hazard : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

 Hazard statements : H225 Highly flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H340 May cause genetic defects.

## JM Single Ply LVOC Caulk - White

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

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.

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

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

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

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.

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

Adhesives and/or sealants

**Hazardous components**

| Chemical name                             | CAS-No.    | Concentration (%) |
|---|------------|-------------------|
| solvent naphtha (petroleum), light aliph. | 64742-89-8 | >= 10 - < 30      |
| titanium dioxide                          | 13463-67-7 | >= 1 - < 5        |
| benzene                                   | 71-43-2    | >= 0.1 - < 1      |

Actual concentration or concentration range is withheld as a trade secret

**JM Single Ply LVOC Caulk - White**

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

**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.  
Symptoms of poisoning may appear several hours later.
- 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, immediately flush skin with plenty of water for at least 15 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 15 minutes.  
If easy to do, remove contact lens, if worn.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : 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.  
Get medical attention immediately.  
If breathing is irregular or stopped, administer artificial respiration.
- Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause genetic defects.  
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  
Dry chemical  
Foam  
Halons
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
- Hazardous combustion : carbon oxides

## JM Single Ply LVOC Caulk - White

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

|   |   |  |
|---|---|--|
| products                                      | : | titanium/titanium oxides   |
| Further information                           | : | Standard procedure for chemical fires.                                 |
| 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 | : | Ensure adequate ventilation.<br>Use personal protective equipment.<br>Evacuate personnel to safe areas.<br>Keep people away from and upwind of spill/leak.<br>Remove all sources of ignition.<br>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               | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).<br>Keep in suitable, closed containers for disposal. |

### SECTION 7. HANDLING AND STORAGE

|   |   |   |
|---|---|---|
| Advice on protection against fire and explosion | : | Use explosion-proof equipment.<br>Electrical equipment should be protected to the appropriate standard.<br>Take measures to prevent the build up of electrostatic charge.<br>Use only in area provided with appropriate exhaust ventilation.<br>Keep away from open flames, hot surfaces and sources of ignition. |
| Advice on safe handling                         | : | For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.  |
| Conditions for safe storage                     | : | Keep containers tightly closed in a dry, cool and well-ventilated place.<br>To maintain product quality, do not store in heat or direct sunlight.<br>Use explosion-proof equipment.   |
| Materials to avoid                              | : | Keep away from oxidizing agents and strongly acid or alkaline materials.  |
| Recommended storage temperature                 | : | 16 - 27 °C  |
| Storage period                                  | : | 12 Months   |
| Further information on storage stability        | : | Protect from frost, heat and sunlight.  |

**JM Single Ply LVOC Caulk - White**

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

**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     |
|--|------------|----------------------------------|---|-----------|
| solvent naphtha (petroleum),<br>light aliph. | 64742-89-8 | TWA                              | 500 ppm<br>2,000 mg/m <sup>3</sup>                | OSHA      |
| titanium dioxide                             | 13463-67-7 | TWA (total dust)                 | 15 mg/m <sup>3</sup>                              | OSHA      |
|  |            | TWA                              | 10 mg/m <sup>3</sup><br>(Titanium dioxide)        | ACGIH     |
| benzene                                      | 71-43-2    | TWA                              | 0.5 ppm   | ACGIH     |
|  |            | STEL                             | 2.5 ppm   | ACGIH     |
|  |            | TWA                              | 0.1 ppm   | NIOSH REL |
|  |            | ST                               | 1 ppm   | NIOSH REL |
|  |            | TWA                              | 10 ppm  | OSHA      |
|  |            | CEIL                             | 25 ppm  | OSHA      |
|  |            | Peak                             | 50 ppm<br>(10 minutes)                            | OSHA      |
|  |            | PEL                              | 1 ppm   | OSHA CARC |
|  |            | STEL                             | 5 ppm   | OSHA CARC |

**Biological occupational exposure limits**

| Components | CAS-No. | Control parameters       | Biological specimen | Sampling time  | Permissible concentration | Basis     |
|------------|---------|--------------------------|---------------------|--|---------------------------|-----------|
| benzene    | 71-43-2 | S-Phenylmercapturic acid | Urine               | End of shift (As soon as possible after exposure ceases) | 25 µg/g creatinine        | ACGIH BEI |
|            |         | t,t-Muconic acid         | Urine               | End of shift (As soon as possible after exposure ceases) | 500 µg/g creatinine       | ACGIH BEI |

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.  
 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

## JM Single Ply LVOC Caulk - White

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

hazardous chemical is limited. Use a positive pressure air 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                 | : Solvent-resistant 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.  |
| Skin and body protection | : Wear protective clothing, such as long-sleeved shirts and pants.   |
| Hygiene measures         | : Handle in accordance with good industrial hygiene and safety practice.<br>Written instructions for handling must be available at the work place.   |

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                             |                     |
|-----------------------------|---------------------|
| Appearance                  | : liquid            |
| Colour                      | : white             |
| Odour                       | : hydrocarbon-like  |
| Odour Threshold             | : No data available |
| pH                          | : No data available |
| Melting point/range         | : not determined    |
| Boiling point/boiling range | : 98 °C             |
| Flash point                 | : -4 °C             |
| Evaporation rate            | : not determined    |
| Flammability (solid, gas)   | : Not applicable    |
| Upper explosion limit       | : 6.7 %(V)          |
| Lower explosion limit       | : 1.1 %(V)          |
| Vapour pressure             | : 48 hPa (20 °C)    |
| Relative vapour density     | : No data available |

**JM Single Ply LVOC Caulk - White**

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

|  |   |                                 |
|--|---|---------------------------------|
| Relative density                       | : | No data available               |
| Density                                | : | 1.428 g/cm <sup>3</sup> (20 °C) |
| Solubility(ies)                        |   |                                 |
| Water solubility                       | : | immiscible                      |
| Solubility in other solvents           | : | No data available               |
| Partition coefficient: n-octanol/water | : | No data available               |
| Auto-ignition temperature              | : | 215 °C                          |
| Thermal decomposition                  | : | No data available               |
| Viscosity                              |   |                                 |
| 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, flames and sparks.                                    |
| Incompatible materials             | : | Oxidizing agents<br>Strong acids and strong bases           |

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

Not classified based on available information.

**Product:**

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | Acute toxicity estimate : > 5,000 mg/kg<br>Method: Calculation method   |
| Acute inhalation toxicity | : | Acute toxicity estimate : 194.44 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Calculation method |
| Acute dermal toxicity     | : | Acute toxicity estimate : > 5,000 mg/kg<br>Method: Calculation method   |

**JM Single Ply LVOC Caulk - White**

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

**Acute toxicity****Components:****solvent naphtha (petroleum), light aliph.:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.61 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: No mortality was observed.  
Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Information given is based on data obtained from similar substances.

**Acute toxicity****titanium dioxide:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : Method: Expert judgement  
Assessment: The substance or mixture has no acute dermal toxicity

**Acute toxicity****benzene:**

Acute oral toxicity : LD50 (Rat, male): > 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, female): 43.767 mg/l, 13700 ppm  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 8,260 mg/kg  
Method: OECD Test Guideline 402

**Skin corrosion/irritation****Components:****solvent naphtha (petroleum), light aliph.:**



## JM Single Ply LVOC Caulk - White

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

Species: Rabbit  
 Method: OECD Test Guideline 404  
 Result: Skin irritation  
 Remarks: Information taken from reference works and the literature.

### Skin corrosion/irritation

#### benzene:

Species: Rabbit  
 Exposure time: 4 h  
 Method: OECD Test Guideline 404  
 Result: Irritating to skin.

### Serious eye damage/eye irritation

#### Components:

#### benzene:

Species: Rabbit  
 Result: Irritating to eyes.

Respiratory sensitisation: Not classified based on available information.

### Germ cell mutagenicity

#### Components:

#### benzene:

Germ cell mutagenicity- Assessment : In vivo tests showed mutagenic effects

### Carcinogenicity

#### Components:

#### benzene:

Carcinogenicity - Assessment : Human carcinogen.

|             |   |            |
|-------------|---|------------|
| <b>IARC</b> | Group 1: Carcinogenic to humans           |            |
|             | benzene                                   | 71-43-2    |
|             | Group 2B: Possibly carcinogenic to humans |            |
|             | titanium dioxide                          | 13463-67-7 |
| <b>OSHA</b> | OSHA specifically regulated carcinogen    |            |
|             | benzene                                   | 71-43-2    |
| <b>NTP</b>  | Known to be human carcinogen              |            |
|             | benzene                                   | 71-43-2    |

### STOT - single exposure

#### Components:

solvent naphtha (petroleum), light aliph.:

**JM Single Ply LVOC Caulk - White**

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

Exposure routes: Inhalation  
Target Organs: Central nervous system  
Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure****Components:****benzene:**

Exposure routes: Ingestion  
Target Organs: hematopoietic system  
Assessment: Causes damage to organs through prolonged or repeated exposure.

Exposure routes: inhalation (vapour)  
Target Organs: hematopoietic system  
Assessment: Causes damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:****solvent naphtha (petroleum), light aliph.:**

May be fatal if swallowed and enters airways.

**benzene:**

May be fatal if swallowed and enters airways.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****solvent naphtha (petroleum), light aliph.:**

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): 8.2 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): 4.5 mg/l  
aquatic invertebrates : End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (algae)): 3.1 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (algae)): 0.5 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

## JM Single Ply LVOC Caulk - White

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 2.6 mg/l  
 Exposure time: 21 d  
 Test Type: semi-static test  
 Method: OECD Test Guideline 211

### benzene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.3 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 100 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : EC10 (Pimephales promelas (fathead minnow)): 0.8 mg/l  
 Exposure time: 32 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Ceriodaphnia dubia): 3 mg/l  
 Exposure time: 7 d

Toxicity to microorganisms : IC50 (activated sludge): 13 mg/l  
 Exposure time: 24 h

### Persistence and degradability

#### Components:

#### benzene:

Biodegradability : Biodegradation: 100 %

### Bioaccumulative potential

#### Components:

#### benzene:

Bioaccumulation : Bioconcentration factor (BCF): 13

Partition coefficient: n-octanol/water : log Pow: 2.13 (25 °C)  
 pH: 7

### 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 +

## JM Single Ply LVOC Caulk - White

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

B).

Additional ecological information : Harmful to aquatic life.  
Harmful to aquatic life with long lasting effects.

### 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.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

#### International transport regulations

Land transport

USDOT (Special Provision 149): UN1133, Adhesives, 3, II

TDG: UN1133, Adhesives, 3, II

LIMITED QUANTITY if shipped in inner packagings not over 5.0 L (1.3 gallons) net capacity each, packed in a strong outer packaging.

Sea transport

IMDG: UN1133, Adhesives, 3, II

Air transport

IATA/ICAO: UN1133, Adhesives, 3, II

### SECTION 15. REGULATORY INFORMATION

#### TSCA list

TSCA - 5(a) Significant New Use Rule List of Chemicals : No substances are subject to a Significant New Use Rule.

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D) : No substances are subject to TSCA 12(b) export notification requirements.

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

##### CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|---------|--------------------|-----------------------------|
| benzene    | 71-43-2 | 10                 | 1000                        |

**JM Single Ply LVOC Caulk - White**

Version 1.1

Revision Date 03/31/2020

Print Date 03/31/2020

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Aspiration hazard  
Germ cell mutagenicity  
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:

|         |         |                |
|---------|---------|----------------|
| benzene | 71-43-2 | 0.1 - 0.9999 % |
|---------|---------|----------------|

**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 Intermediate or Final VOC's (40 CFR 60.489).

**California Prop. 65**

**⚠️ WARNING:** This product can expose you to chemicals including benzene, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. 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

**SECTION 16. OTHER INFORMATION**

**Further information**

Revision Date : 03/31/2020

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.