

# DM Healthcare Products, Inc.

## Safety Data Sheet

MSDS ID: H1231

Revised Date: 01/01/19  
Replaces Date: 02/20/15

### 1. General Information

Product Code: H1231  
Trade Name(s): 4 Meta  
Product Type: Dental Materials Adhesion Promoter  
Recommended Use:  
Restrictions: None identified

Company: DM Healthcare Products, Inc.  
10080 Willow Creek Rd.  
San Diego, CA 92131  
Telephone: 858-348-1122

Emergency phone number (spill, leak, fire, exposure or accident):  
US Domestic (800) 535-5053 (INFOTRAC) Includes Canada and Mexico  
International +1 (352) 323-3500  
China Specific (86) 400-120-0761  
Germany Specific (49) 0800-181-2924  
Australia Specific (61) 1-300-366-961

### 2. Hazards Identification

#### EMERGENCY OVERVIEW:

**OSHA Hazards:**  
Skin sensitizer, Irritant.

**GHS Classification:**  
Skin irritation (Category 2)  
Serious eye damage (Category 1)  
Skin sensitization (Category 1)

#### GHS Label Elements, including precautionary statements:



Signal Word: **Warning**

H317: May cause an allergic skin reaction.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P280d: Wear protective gloves.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P501: Dispose of contents/container to hazardous waste  
P264: Wash thoroughly after handling.  
P332+P313: If skin irritation occurs: Get medical advice/attention.

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P362: Take off contaminated clothing.  
P280e: Wear eye protection/face protection.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

### HMIS Classification:

Health Hazard: 2  
Flammability: 1  
Physical Hazards: 0

### NFPA Rating:

Health Hazard: 2  
Fire: 1  
Reactivity Hazard: 0

### POTENTIAL HEALTH EFFECTS:

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.  
**EYE CONTACT:** Causes eye irritation  
**SKIN CONTACT:** Harmful if absorbed through skin. Causes skin irritation.  
**SWALLOWING:** May be harmful if swallowed.

## 3. Composition Information

**Synonyms:** H1231, 4-Meta

COMPONENT	CAS#	CONCENTRATION
4-Methacryloxyethyl trimellitic anhydride	70293-55-9	> 90 %

## 4. First Aid Measures

### GENERAL ADVICE:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If swallowed:

Do not induce vomiting. Give person large amounts of water. Get immediate medical attention.

### In case of skin contact:

Wash area with soap and water. Consult a physician.

### If inhaled:

Remove person to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### In case of eye contact:

Flush with water for 15 minutes as a precaution.

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### 5. Fire and Explosion Hazard Data

**Conditions of flammability:**

Will burn.

**Suitable extinguishing media:**

Chemical form, dry chemical of carbon dioxide.

**Special protective equipment for firefighters:**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products:**

Hazardous combustion products formed under fire conditions. Nature of decomposition products - not known.

### 6. Accidental Release Measures

**Personal Precautions:**

Wear personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation.

**Environmental precautions:**

Do not let product enter drains.

**Methods and materials for containment and cleaning up:**

Pick-up and arrange for disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. Handling and Storage

**Precautions for safe handling:**

Avoid contact with skin eyes. Avoid formation of dust and aerosols. Keep container closed. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage:**

Store at 5°C or colder away from light and incompatible materials identified in the *Stability and Reactivity Section*.

### 8. Exposure Controls and Personal Protection Measures

Contains no substances with occupational exposure limit values

**Personal protective equipment:**

**Respiratory protection:**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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### Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good manufacturing practices. Wash and dry hands.

### Eye protection:

Safety glasses with side shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

### Skin and body protection:

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 9. Physical / Chemical Characteristics

### Appearance:

Physical State:	Solid (Powder/Crystals)
Color:	White
Odor:	None to slight
Odor threshold:	no data available

### Other properties:

pH:	no data available
Melting Point:	95°C
Boiling Point:	no data available
Flash Point:	> 93°C (> 200°F) closed cup
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor Pressure:	no data available
Specific Gravity (H <sub>2</sub> O=1):	no data available
Solubility in water:	no data available
n-Octanol/water partition coefficient:	no data available
Evaporation rate (BuAc=1):	< 1
Avg. Molecular Weight:	304.25
Percent volatile (weight):	<0.01%
Percent volatile (volume):	<0.01%
Volatile organic content:	<0.1 g/L

## 10. Reactivity Hazard Data

### Chemical stability:

Unstable. Can react with moisture in the air to render the material unusable.

### Conditions to avoid:

Elevated temperatures in the presence of initiators. Moisture, inert gas blanketing, UV radiation.

### Materials to avoid:

Strong oxidizing, strong reducers, free radical initiators, inert gases, oxygen scavengers.

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### Hazardous decomposition products:

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

### Possibility of hazardous reactions:

No data available.

## 11. Toxicological Information

### Acute Toxicity:

#### Oral LD50

No data available

#### Inhalation LC50

No data available

#### Dermal LD50

No data available

#### Other information on acute toxicity

No data available

### Skin Corrosion/irritation:

No data available

### Serious eye damage/eye irritation:

No data available

### Respiratory or skin sensitization:

Prolonged or repeated exposure may cause allergic reactions in certain individuals.

### Germ cell mutagenicity:

No data available

### Carcinogenicity:

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.

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.

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.

### Reproductive toxicity:

No data available

### Teratogenicity:

No data available

### Specific target organ toxicity – single exposure (Globally Harmonized System)

No data available

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### Specific target organ toxicity – repeated exposure (Globally Harmonized System)

No data available

### Aspiration hazard

No data available

### Potential health affects:

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	Harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

### Signs and Symptoms of Exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Synergistic effects:

No data available

### Additional Information:

RETCS: Not available

## 12. Ecological Information

### Toxicity:

No data available

### Persistence and degradability:

No data available

### Bioaccumulation potential:

No data available

### Mobility in soil:

No data available

### PBT and vPvP assessment:

No data available

### Other adverse effects:

No data available

## 13. Disposal Considerations

### Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging:

Dispose of as unused product.

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### 14. Transport Information

**DOT (US):**

Not dangerous goods

**IMDG:**

Not dangerous goods

**IATA:**

Not dangerous goods

### 15. Regulatory Information

**TSCA Status:**

Not listed.

**OSHA Hazards:**

Skin sensitizer, Irritant.

**SARA 302 Components:**

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

**SARA 313 Components:**

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.

**SARA 311/312 Hazards:**

Acute health hazard

**CALIFORNIA PROPOSITION 65:**

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

### 16. Other Information

The opinions expressed herein are those of qualified experts within DM Healthcare Products, Inc. We believe that the information contained herein is current, as of the date of this SDS. Because the use of this information and of these opinions, and the conditions of use of this product, are not within the control of DM Healthcare Products, Inc., it is the user's legal obligation to determine the conditions of safe use of this product.