



## H.B. Fuller® HM-2448-M

Version 0.1

Revision Date 05/26/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : H.B. Fuller® HM-2448-M  
Product code : 100000001921

#### Manufacturer or supplier's details

Company : H.B. Fuller Company  
Address : 1200 Willow Lake Boulevard  
Vadnais Heights, MN 55110  
Telephone : 1-888-423-8553

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

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

Recommended use : Hot melt adhesive  
Restrictions on use : For industrial use only.

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	Solid form
Color	off-white
Odor	Neutral

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS Label element

Not a hazardous substance or mixture.

#### Potential Health Effects

Inhalation : Vapors/fumes may be irritating at application temperatures.

Skin : Contact with hot product will cause thermal burns.

Aggravated Medical Condition : None known.

#### Carcinogenicity:

##### IARC

Group 2B: Possibly carcinogenic to humans During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.

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<b>OSHA</b>	titanium dioxide	13463-67-7
	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
<b>NTP</b>	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	

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

Substance / Mixture : Mixture

**Hazardous ingredients**

Chemical Name	CAS-No.	Concentration [%]
Paraffin waxes and Hydrocarbon waxes	8002-74-2	20 - 30
titanium dioxide	13463-67-7	0.1 - 1

**SECTION 4. FIRST AID MEASURES**

General advice	: Show this material safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Wash off with soap and water. Cool melted product on skin with plenty of water. Do not remove solidified product.
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.
Notes to physician	: Use mineral oil to soften and loosen product for removal.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: Do NOT use water jet.
Specific hazards during fire fighting	: Burning produces irritant fumes.

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Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.  
Methods and materials for containment and cleaning up : Allow to solidify.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid breathing vapors/fumes of heated product. Prevent contact with molten product.  
Conditions for safe storage : Keep in a dry, cool place.  
Materials to avoid : No special restrictions on storage with other products.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters**

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Paraffin waxes and Hydrocarbon waxes	8002-74-2	TWA	2 mg/m3	ACGIH
		TWA	2 mg/m3	OSHA P0
titanium dioxide	13463-67-7	TWA	10 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total)	10 mg/m3	OSHA P0

**Engineering measures** : At the application temperature, use of local exhaust over the premelting reservoir is encouraged.

**Personal protective equipment**

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Filter type : Particulates type

**Hand protection**

Material : Protective gloves

Remarks : When handling hot material, use heat resistant gloves.

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Eye protection : Safety glasses

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Solid form  
Color : off-white  
Odor : Neutral  
Odor Threshold : No data available  
pH : Not applicable  
Boiling point/boiling range : not determined  
Flash point : Not applicable  
Evaporation rate : not determined  
Flammability (solid, gas) : Not classified as a flammability hazard  
  
Upper explosion limit : upper flammability limit  
not determined  
Lower explosion limit : lower flammability limit  
not determined  
Vapor pressure : not determined  
Relative vapor density : not determined  
Density : 0.97 g/cm<sup>3</sup>  
Solubility(ies)  
Water solubility : insoluble  
Partition coefficient: n-  
octanol/water : No data available  
Autoignition temperature : not determined  
Thermal decomposition : Carbon monoxide, carbon dioxide and unburned  
hydrocarbons (smoke).  
  
Viscosity  
Viscosity, kinematic : Not applicable  
Solid Content, % by weight: : 100  
VOC, % by weight : 0

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : The product is chemically stable.  
Possibility of hazardous  
reactions : Hazardous polymerization does not occur.  
Hazardous decomposition  
products : Stable under normal conditions.  
Thermal decomposition can lead to release of irritating gases  
and vapors.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

**Ingredients:**

**titanium dioxide:**

Acute oral toxicity : LD50 Oral rat: > 10,000 mg/kg

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration toxicity**

No data available

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

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No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of in an approved landfill. Consult your state, local or provincial authorities and your local waste vendor for more restrictive requirements. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

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**SECTION 14. TRANSPORT INFORMATION**

**Special precautions for user**

Remarks : Not dangerous goods

**Domestic regulation**

**International Regulation**

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : No SARA Hazards

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

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**SARA 313** : SARA 313: This product does not contain any chemical components that exceed the reporting threshold.

**Clean Air Act**

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

**US State Regulations**

**California Prop 65**

WARNING! This product contains a chemical known in the State of California to cause cancer.

titanium dioxide

13463-67-7

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

<b>TSCA</b>	On TSCA Inventory
<b>DSL</b>	All components of this product are on the Canadian DSL.
<b>REACH</b>	Not in compliance with the inventory
<b>AICS</b>	On the inventory, or in compliance with the inventory
<b>NZIoC</b>	Not in compliance with the inventory
<b>ENCS</b>	Not in compliance with the inventory
<b>KECI</b>	On the inventory, or in compliance with the inventory
<b>PICCS</b>	On the inventory, or in compliance with the inventory
<b>IECSC</b>	On the inventory, or in compliance with the inventory
<b>TWINV</b>	Not in compliance with the inventory

**Inventories Legend** TSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

**SECTION 16. OTHER INFORMATION**

Prepared by: Global Regulatory Department - phone: 1-651-236-5842 - email: msds.request@hbfuller.com

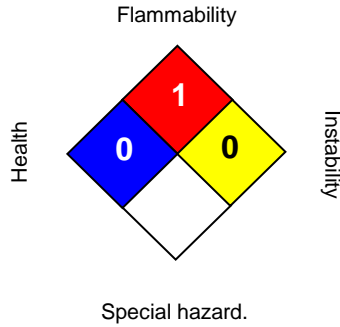
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**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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