



HUBER ENGINEERED MATERIALS

# MATERIAL SAFETY DATA SHEET

## Hubercarb® M200

Issue Date: 16/Nov/2011

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Hubercarb® M200

**Chemical Name** Limestone

**Company** J.M. Huber Corporation  
3100 Cumberland Boulevard, Suite 600  
Atlanta, GA 30339 USA

Tel: +1 678 247-7300

**Emergency Telephone** CHEMTREC: 1 800 424 9300 or International +1 703 527 3887

**Internet** www.hubermaterials.com

**Email** cheryl.vandyne@huber.com

### 2. HAZARD IDENTIFICATION

**Emergency overview:** This is a non-combustible, odorless white powder.

**Potential Health Effects**

**Eye contact:** Non-irritating.

**Skin contact:** Dries skin.

**Inhalation:** Dust may cause mechanical irritation.

**Sensitization** Does not cause sensitization.

**Carcinogenicity:** This product contains greater than 0.1% crystalline silica which is listed as a Group 1 carcinogen by IARC, a known carcinogen by NTP, OSHA and as A2 suspected human carcinogen by ACGIH.

**Potential environmental effects** Not considered to be harmful to aquatic life.

**Other Hazards** None known

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(S) / CAS	EC / REACH	%W/W
Limestone 1317-65-3	215-279-6 Exempt*	100
Crystalline Silica, quartz (impurity) 14808-60-7	238-878-4 Exempt*	1.0 - 5.0

**Limestone - 1317-65-3**

Regulation (EC) 1907/2006: REACH \*Exempt as a naturally occurring substance.

**Crystalline Silica, quartz (impurity) - 14808-60-7**

\*Exempt. An impurity

## 4. FIRST AID MEASURES

<b>General Advice</b>	In case of doubt or when symptoms persist, seek medical attention.
<b>Eye contact</b>	Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Remove person to fresh air.

## 5. FIRE-FIGHTING MEASURES

**NFPA:** Health 1 Flammability 0 Reactivity 0 PPE: E

**HMIS:** Health 1 Flammability 0 Physical hazard 0

<b>Extinguishing media</b>	All extinguishing media can be used. Use suitable media appropriate for the surrounding fire. Non-combustible.
<b>Unsafe extinguishing media:</b>	None.
<b>Special exposure hazards:</b>	None.
<b>Special protective equipment for firefighters</b>	Firefighters should wear protective clothing and use equipment that is suitable for the materials involved in the surrounding fire.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid contact with skin and eyes. Wear suitable personal protection equipment. Avoid inhalation of dust.
<b>Potential environmental effects</b>	Not considered to be harmful to aquatic life.
<b>Cleanup methods</b>	Pick up mechanically and / or by rinsing with water. Avoid dry sweeping and use a sprinkler system or exhaust ventilation to prevent dust formation.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Storage</b>	Store in a dry area. Keep containers closed and protect from physical damage.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Controls

<b>Engineering Controls:</b>	Use mechanical ventilation (dilution and local exhaust) to control exposure.
<b>Nuisance particles/ Nuisance dust:</b>	If not specified dusts are: ACGIH: 10 mg/m <sup>3</sup> (total dust), 3 mg/m <sup>3</sup> (respirable fraction) OSHA PEL: 15 mg/m <sup>3</sup> (total dust), 5 mg/m <sup>3</sup> (respirable fraction)
<b>Personal Protective Equipment</b>	
<b>Eye Protection</b>	Safety glasses with side shields.
<b>Skin and Body Protection:</b>	Use suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure.
<b>Hand Protection:</b>	Impervious gloves: chemical resistant. EN 420
<b>Respiratory Protection:</b>	In case of exposure to high levels of airborne dust, wear a respirator EN 149, P2 half masks Use NIOSH/MSHA approved respiratory protection equipment when airborne exposures exceeds established guidelines.
<b>Hygiene Measures:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Potential environmental effects</b>	Not considered to be harmful to aquatic life.

### Control Parameters

#### Exposure Limit Values:

#### Limestone - 1317-65-3

OSHA - TWA	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
ACGIH - TLV-TWA 8-hour	--
NIOSH - TWAs	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>
NIOSH - Target Organs	skin respiratory system eyes
Canada - Alberta - OEL - TWA	10 mg/m <sup>3</sup>
Canada - British Columbia - OEL - TWA	3 mg/m <sup>3</sup> (respirable fraction); 10 mg/m <sup>3</sup> (total dust)
Canada - British Columbia - OEL - TWAs	10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>
Canada - British Columbia - OELs- STELs	20 mg/m <sup>3</sup>

#### Crystalline Silica, quartz (impurity) - 14808-60-7

OSHA - TWA	(10 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> + 2) (respirable) (30 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> + 2) (Total Dust)
ACGIH - TLV-TWA 8-hour	0.025 mg/m <sup>3</sup> TWA (respirable fraction)
NIOSH - TWAs	0.05 mg/m <sup>3</sup>
NIOSH - Potential Occupational Carcinogens	potential occupational carcinogen
Canada - Alberta - OEL - TWA	0.025 mg/m <sup>3</sup> TWA (respirable particulate)
Canada - British Columbia - OEL - TWA	0.025 mg/m <sup>3</sup> TWA (respirable fraction)
Canada - British Columbia - OEL - Designated Substances	ACGIH Category A2 - Suspected Human Carcinogen IARC Category 1 - Human Carcinogen
Canada - British Columbia - OEL - TWAs	0.025 mg/m <sup>3</sup>
Canada - Manitoba - OEL - TWA	0.025 mg/m <sup>3</sup> TWA (respirable fraction)

Canada - Newfoundland & Labrador - 0.025 mg/m<sup>3</sup> TWA (respirable fraction)  
OEL - TWA  
Canada - Nova Scotia - OEL - TWA 0.025 mg/m<sup>3</sup> TWA (respirable fraction)  
Canada - Prince Edward Island - OEL 0.025 mg/m<sup>3</sup> TWA (respirable fraction)  
- TWA  
Mexico OEL Data - TWA 0.1 mg/m<sup>3</sup> TWA (respirable fraction)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White Powder
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH:</b>	8.4 - 10.2 (5% water suspension)
<b>Freeze Point</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability</b>	Not applicable
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Density</b>	2.7 g/cm <sup>3</sup> @ 20°C
<b>Water Solubility</b>	1.3 g/l @ 20° C
<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	700-900° C

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	None
<b>Stability</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	None
<b>Materials to avoid (Incompatible Materials)</b>	Strong Acids
<b>Hazardous decomposition products</b>	None

## 11. TOXICOLOGICAL INFORMATION

**Chronic toxicity** No evidence of mutagenic or reproductive effects.

**Limestone - 1317-65-3**  
LD50 Oral 6450 mg/kg (rat)

**Crystalline Silica, quartz (impurity) - 14808-60-7**  
IARC - Group 1 (Carcinogenic to Humans)  
dated 1977  
LD50 Oral 500 mg/kg (rat)

### Potential Health Effects

**Sensitization** Does not cause sensitization.

<b>Eye irritation</b>	Non-irritating.
<b>Skin irritation</b>	Non-irritating.
<b>Inhalation</b>	Contains crystalline silica which can be absorbed into the body by inhalation and may have effects on the lungs, resulting in fibrosis (silicosis).
<b>Carcinogenicity:</b>	This product contains greater than 0.1% crystalline silica which is listed as a Group 1 carcinogen by IARC, a known carcinogen by NTP, OSHA and as A2 suspected human carcinogen by ACGIH.

## 12. ECOLOGICAL INFORMATION

<b>Potential environmental effects</b>	Not considered to be harmful to aquatic life.
<b>Ecotoxicity</b>	This product is not expected to be toxic to aquatic life.
<b>Persistence / Degradability</b>	Non-degradable
<b>Bioaccumulative potential</b>	None
<b>Mobility</b>	Inert material.
<b>Other Adverse Effects</b>	None known.

### Limestone - 1317-65-3

Germany - Water Classification (VwVwS) - Annex 1 317 : 0

### Crystalline Silica, quartz (impurity) - 14808-60-7

Germany - Water Classification (VwVwS) - Annex 1 849 : 0

Germany - Water Classification (VwVwS) - Annex 3 849 : 0

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL CONSIDERATIONS:** Dispose in accordance with local, state and national regulations.

### Limestone - 1317-65-3

European Waste Catalogue (EWC): 10130414

## 14. TRANSPORT INFORMATION

<b>UN-No</b>	None.
<b>Proper Shipping Name</b>	Refer to Sections 1 and 3 for product name and chemical name(s)
<b>IMO / IMDG</b>	Not a dangerous substance.
<b>ICAO / IATA</b>	Not a dangerous substance.
<b>RID/ADR</b>	Not a dangerous substance.
<b>D.O.T. Hazard Classification</b>	Non-hazardous material
<b>General Information</b>	The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Other information Environmental hazards: None known

Special precautions for user: Refer to Sections 2, 7, 8, 9, 10

## 15. REGULATORY INFORMATION

Component(s) of the product are on the following Inventory lists:

COMPONENT(S) / CAS	EC / REACH	Australia (AICS)	Canada	China (IECSC)	Japan	Korea (KECL)	New Zealand (NZIoC)	Philippines (PICCS)	USA (TSCA)	Taiwan (ECN)
Limestone 1317-65-3	215-279-6 Exempt*	Present	Present (NDSL)*	Present	(1)-122	KE-21996	Present	Present	Present	Nominated
Crystalline Silica, quartz (impurity) 14808-60-7	238-878-4 Exempt*	Present	Present (DSL)	Present	(1)-548 (ENCS)	KE-29983	Present	Present	Present	-

### Limestone - 1317-65-3

Regulation (EC) 1907/2006: REACH \*Exempt as a naturally occurring substance.

### Crystalline Silica, quartz (impurity) - 14808-60-7

\*Exempt. An impurity

#### Legend

Present: Listed

-: Not Listed

\*Exempt

Nominated

### Regulatory and Compendial Status:

Refer to Product Dossier

#### USA

##### **SARA Title III, Sections 302, 304, 311, 312, 313; CERCLA RQ:**

This product is not subject to these referenced SARA and CERCLA regulations.

##### **SARA Section 302 Extremely Hazardous Substances (EHS)**

This product does not contain any components regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

##### **California Proposition 65**

This product contains no chemicals at levels known to the State of California to cause cancer or reproductive hazards.

##### **CONEG**

The heavy metals defined in CONEG are not intentionally introduced to this product and with respect to heavy metals, lead and arsenic, the level is less than 100 ppm.

#### CANADA

##### **WHMIS:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. OTHER INFORMATION

**Prepared by** Cheryl A. Van Dyne  
Global Senior Manager  
Regulatory Management Systems  
email: cheryl.vandyne@huber.com  
tel: 1-619-595-5027  
fax: 1-619-595-5036

**Training Advice** Personnel handling the substance(s) named in this Safety Data Sheet should be skilled and trained in areas associated with the key points named herein.

Personnel should have training and access to appropriate PPE for handling this product.

Personnel handling the substance(s) named in this Safety Data Sheet are responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the substance(s) intended purpose.

If additional information is required, please contact the supplier or an expert.

**Sources of key data** Literature data and/or investigative reports are available through the manufacturer.

**Acronym / Abbreviation**

ACRONYMS:  
INTERNATIONAL:  
ADR: International Carriage of Dangerous Goods by Road  
BOD: Biochemical Oxygen Demand  
CLP: Classification, Labeling and Packaging  
COD: Chemical Oxygen Demand  
D.O.T.: U.S. Department of Transportation  
ICAO International Civil Aviation Organization  
IATA: International Air Transport Association (IATA)  
IMO::International Maritime Organization.  
IMDG::International Maritime Dangerous Goods  
INCI: International Nomenclature of Cosmetic Ingredients  
OES: Occupational Exposure Standard  
OR: EU REACH Only Representative  
PPE: Personal protection equipment  
RID: International Carriage by Rail  
SCBA: self contained breathing apparatus  
TLV-STEL: Threshold Limit Values - Short Term Exposure Limits  
TWA: Time Weighted Averages

North America:  
CERCLA RQ: US EPA Comprehensive Environmental, Response, and Liability Act Reportable Quantity  
CERCLA: US EPA Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CONEG: Conference of North Eastern Governors  
NIOSH/MSHA - National Institute for Occupational Safety and Health/Mine Safety and Health Administration  
SARA: Superfund Amendments and Reauthorization Act (US EPA)  
TDG: Canada Transport of Dangerous Goods  
WHMIS: Canada's Workplace Hazardous Materials Information System

**Disclaimer:** The information contained in this Safety Data Sheet to the best of JM Huber's knowledge and belief as of the date indicated is believed to be accurate and reliable. However, no representation, warranty or guarantee is implied or expressed regarding the accuracy, reliability or completeness of this information or the use of the product. Nothing contained herein should be construed as a recommendation to use this product in conflict with National or local regulations or existing patents covering any material or its use. In case of dispute, the English text governs.

**END OF SAFETY DATA SHEET**