

**1. Identification of the Substance/Preparation and of the Company/Undertaking****Product Identifier**

**Product Name** MasterMet  
**Product Code(s)** 40-6370-006, 40-6370-064  
**(M)SDS Number** 1337888\_A

**Other means of identification**

**Synonyms** None

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

**Recommended Use** Laboratory use  
**Uses advised against** No information available

**Details of the Supplier of the Safety Data Sheet**

**Manufacturer** Buehler  
**Manufacturer Address** 41 Waukegan Rd  
Lake Bluff, IL 60044  
www.buehler.com  
**Phone number** +1 847 295 6500  
**E-mail address** custserv@buehler.com

**Emergency Telephone Number**

Global Access Code: 334545  
Americas: +1 760 476 3962  
Middle East/Africa: +1 760 476 3959  
Asia Pacific: +1 760 476 3960  
Europe: +1 760 476 3961

**2. Hazards Identification****Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**GHS Label elements, including precautionary statements****EMERGENCY OVERVIEW**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance** Blue

**Physical state** Liquid

**Odor** Odorless

**Precautionary Statements - Prevention**

Obtain special instructions before use

**Precautionary Statements - Response**

None

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

None

**Hazards Not Otherwise Classified (HNOC)**

Not Applicable

**OTHER INFORMATION**

No information available

**Interactions with other chemicals**

No information available.

### 3. Composition/information on Ingredients

Chemical name	CAS No.	Weight-%	Trade secret
Water	7732-18-5	40 - 60%	*
Silica	7631-86-9	40 - 60%	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. First Aid Measures

**FIRST AID MEASURES**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash with soap and water.
<b>INHALATION</b>	Remove to fresh air.
<b>INGESTION</b>	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Most important symptoms and effects** No information available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to physician** Treat symptomatically.

**5. Fire-fighting measures****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**

No information available.

**Explosion Data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Ensure adequate ventilation.

**Environmental Precautions**

**Environmental Precautions** See section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. Handling and Storage

### Precautions for Safe Handling

**Handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible products** None known based on information supplied.

## 8. Exposure Controls/Personal Protection

### Control Parameters

**Exposure guidelines** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silica 7631-86-9	-	TWA: 20 mppcf: (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA	IDLH: 3000 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup>

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health*

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

### Appropriate Engineering Controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** No special protective equipment required.

**Skin and Body Protection** No special protective equipment required.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

### Physical and chemical properties

<b>Physical state</b>	Liquid		
<b>Appearance</b>	Blue	<b>Odor</b>	Odorless
<b>Color</b>	No information available	<b>Odor Threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
<b>pH</b>	9.5 - 10.5		
<b>Melting / freezing point</b>	approx. 32 °F (0 °C)	None known	
<b>Boiling point / boiling range</b>	100 °C / 212 °F		
<b>Flash Point</b>	Water-based materials containing no combustible components	None known	
<b>Evaporation Rate</b>	No data available	None known	
<b>Flammability (solid, gas)</b>	No data available	None known	
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit</b>	No data available		
<b>Lower flammability limit</b>	No data available		
<b>Vapor pressure</b>	No data available	None known	
<b>Vapor density</b>	No data available	None known	
<b>Specific gravity</b>	approx. 1.4 g/cm <sup>3</sup> at 68 °F (20 °C)		
<b>Water Solubility</b>	Miscible		
<b>Solubility in Other Solvents</b>	no data available	None known	
<b>Partition coefficient: n-octanol/water</b>	No data available	None known	
<b>Autoignition temperature</b>	No data available	None known	
<b>Decomposition temperature</b>	No data available	None known	
<b>Kinematic viscosity</b>	No data available	None known	
<b>Dynamic viscosity</b>	No data available	None known	
<b>Explosive Properties</b>	no data available		
<b>Oxidizing Properties</b>	no data available		

**OTHER INFORMATION**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	0%
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

## 10. Stability and Reactivity

**Reactivity**

No data available.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

None known based on information supplied.

**Incompatible Materials**

None known based on information supplied.

**Hazardous decomposition products**

None known based on information supplied.

## 11. Toxicological Information

**Information on likely routes of exposure**

<b>Product information</b>	Specific test data for the substance or mixture is not available.
<b>INHALATION</b>	Specific test data for the substance or mixture is not available.
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin Contact</b>	Specific test data for the substance or mixture is not available.
<b>INGESTION</b>	Specific test data for the substance or mixture is not available.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silica 7631-86-9	> 40000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 2.2 mg/L ( Rat ) 1 h

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**sensitization** No information available.

**Mutagenic effects** No information available.

**carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Silica 7631-86-9		Group 3		X

IARC (International Agency for Research on Cancer)  
Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive Toxicity** No information available.

**STOT - Single Exposure** No information available.

**STOT - Repeated Exposure** No information available.

**Chronic toxicity** Contains a known or suspected carcinogen.

**Target organ effects** EYES. Respiratory System. Immune system. kidney.

**Aspiration hazard** No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

Not Applicable

## 12. Ecological Information

### ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Silica 7631-86-9	72h EC50: = 440 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 5000 mg/L (Brachydanio rerio)		48h EC50: = 7600 mg/L

### Persistence and Degradability

No information available.

### Bioaccumulation

No information available

### Other adverse effects

No information available.

## 13. Disposal Considerations

### Waste Treatment Methods

#### **Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### **Contaminated packaging**

Dispose of contents/containers in accordance with local regulations.

## 14. Transport information

**DOT**  
 Proper shipping name  
 Hazard class

Not regulated  
 NON REGULATED  
 N/A

**TDG**  
 NOT REGULATED

**MEX**  
 Not regulated

**ICAO**  
 Not regulated

**IATA**  
 Proper Shipping Name

Not regulated  
 NON REGULATED

**IMDG/IMO**  
 Not regulated

**RID**  
 Not regulated

**ADR**  
 Not regulated

**ADN** Not regulated

## 15. Regulatory Information

### International Inventories

TSCA Complies  
 DSL All components are listed either on the DSL or NDSL

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

Acute health hazard	NO
Chronic health hazard	NO
Fire hazard	NO
Sudden Release of Pressure Hazard	NO
Reactive hazard	NO

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Silica 7631-86-9	X	X	X		

### International regulations

#### **CANADA**

#### **WHMIS Hazard Class**

Not Determined

## 16. Other Information



<b>NFPA</b>	<b>Health hazards</b> 0	<b>flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical hazards - PERSONAL PROTECTION X</b>
<b>HMS</b>	<b>Health hazards</b> 0	<b>flammability</b> 0	<b>Physical hazard</b> 0	

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**Disclaimer**

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**End of Safety Data Sheet**