



## SAFETY DATA SHEET

Date: June 2015

### Section #1: PRODUCT AND COMPANY IDENTIFICATION

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Product Identification: Glycol Base Colloidal Silica Polishing Slurry  
Product Name: Colloidal Silica in Plastic Containers METS-COLL-SiO<sub>2</sub>-XXXX

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### 2.2 Label elements

##### GHS Labeling

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### 2.3 Other hazards

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

##### Non-Hazardous Ingredients

Component	CAS-No	Weight Percent
Silica, Amorphous, Precipitated	112926-00-8	30 - 50
Water	7732-18-5	30 - 50

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

General advice : Remove soiled/soaked clothing immediately. If you do not feel well, seek medical attention (show the label where possible).

Inhalation : If inhaled, move person to fresh air. If they are having difficulty breathing, give oxygen (if available). Consult a doctor if symptoms continue or get worse.

Skin contact	: In case of contact with skin, wash off immediately with soap and plenty of water. Remove all clothing including shoes. Consult a doctor if you develop skin irritation.
Eye contact	: Rinse the affected eye immediately with plenty of water while keeping the unaffected eye well protected. Consult a doctor if you develop eye irritation.
Ingestion	: Seek medical attention. Make sure to show doctor the package and/or label.

## **5. FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

Suitable extinguishing media : Water spray jet; foam; dry powder; carbon dioxide; product itself is non-combustible; fire extinguishing method of surrounding areas must be discussed.

### **5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire fighting : None known

### **5.3 Advice for fire-fighters**

Protective equipment : Closed - full protective clothing (coat and pants) including helmet. Use self-contained breathing apparatus.

Further information : Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Refer to Section 8: Exposure Controls/Personal Protection.

### **6.2 Environmental precautions**

Environmental precautions : Do not allow entry to drains, waterways, or soil.

### **6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Pick up with liquid binding materials and if necessary fill in containers capable of being locked. Containers in which split substance has been collected must be adequately labeled. Dispose of absorbed material in accordance with the regulations. Clean contaminated floors and objects thoroughly, observing environmental regulations.

## 6.4 Reference to other sections

Additional advice : Information regarding safe handling, see Section 7.  
Information regarding personal protective measures, see Section 8.  
Information regarding waste disposal, see Section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).  
Wear respiratory protection when spraying.

Advice on protection against fire and explosion : Observe the general rules of industrial fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in unopened original container.  
Use polyolefin containers.  
Do not use steel containers.

Further information on storage conditions : Keep container tightly closed and dry in a cool, well-ventilated place. Protect against frost. The product after freezing is no longer usable.

Advice on common storage : Do not store or transport together with food stuffs.

### 7.3 Specific end uses : Determined by user

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure Guidelines

#### Components with workplace control parameters

Components	CAS-No	Control Parameters	Basis
Silica, Amorphous, Precipitated	112926-00-8	TWA: 10 mg/m <sup>3</sup>	ACGIH
		TWA: 6 mg/m <sup>3</sup>	OSHA
		TWA: 6 mg/m <sup>3</sup> 8 hours	OSHA
		TWA: 6 mg/m <sup>3</sup> 10 hours	NIOSH

### 8.2 Exposure controls

#### Engineering measures

Provide good ventilation of working area (local exhaust ventilation if necessary).

#### Personal protective equipment

Respiratory protection : Use respiratory protection in case of insufficient exhaust

Hand protection : Break through time: >10 min.  
Glove thickness: > 0,4 mm  
For short-term exposure (splash protection): Nitrile rubber gloves  
Remarks: These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Eye protection : Tightly fitting safety glasses

Skin and body protection : Protective clothing

Hygiene measures : When using do not eat, drink or smoke. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Use barrier skin cream.

Protective measures : Avoid contact with eyes and skin. Observe the usual precautions for handling chemicals.

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### Environmental exposure controls

General advice : Do not allow entry to drains, water courses or soil.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Form : Liquid  
Color : Blue  
Odor : Odorless

#### Safety data

Upper/lower flammability : Not determined  
Vapor pressure : Not determined  
Vapor density : Not determined  
pH : app. 10 - 10.5 at 68 °F (20 °C)  
Relative density : Not determined  
Freezing point : app. 32 °F (0 °C)  
Solubility(ies) : Miscible in all proportions  
Boiling point/Boiling range : approx. 212 °F (100 °C)  
Flash point : Water-based material containing no combustible components. Compatible with extinguishing agents.  
Evaporation rate : Not determined  
Flammability (solid, gas) : N/A - liquid  
Partition coefficient:  
n-octanol/water : Not determined  
Auto-ignition temperature : N/A - non-flammable liquid  
Decomposition temperature : Not determined  
Viscosity : low, <50 cps

### 9.2 Other information

No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

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#### 10.4 Conditions to avoid

Conditions to avoid : Protect from freezing or frost.

#### 10.5 Incompatible materials

Materials to avoid : No further relevant information available.

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Data for Silica, Amorphous, Precipitated (112926-00-8)

Acute oral toxicity : LDLo > 3,300 mg/kg (rat)

Acute inhalation toxicity : LC50 / 4h > 2 mg/l (rat)

Acute dermal toxicity : LD50 > 5,000 mg/kg (rat)

Skin irritation : Prolonged and/or repeated skin contact may cause irritation.

Eye irritation : Short time, reversible irritation

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Aquatic toxicity : No further relevant information available.

#### 12.2 Persistence and degradability

Biodegradability : Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Biodegradation may occur under anaerobic conditions (in the absence of oxygen).

12.3 Bioaccumulative potential : No further relevant information available.

12.4 Mobility in soil : No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

PBT: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Other adverse effects

No further relevant information available.

Additional ecological information : No further relevant information available.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Additional information : Neutralize  
Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

### 14. TRANSPORT INFORMATION

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DOT : Not dangerous goods

IATA : Not dangerous goods

IMDG : Not dangerous goods

TDG : Not dangerous goods

#### **15. REGULATORY INFORMATION**

##### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

United States : The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

##### **15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out for the substance(s) that makes/make up this material or for the material itself.

#### **16. OTHER INFORMATION**

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35 g/cm<sup>3</sup>)

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**Further information**

Further information : Observe national and local legal requirements

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