



1001 E. Centralia Street
Elkhorn, WI 53121

SAFETY DATA SHEET

AMSoI™ 4015

Revision Date: 17 March 2021

1) IDENTIFICATION

PRODUCT NAME **AMSoI™ 4015**
IDENTIFICATION NUMBER
PRODUCT USE/CLASS Suspension of amorphous silica in water
CAS NUMBER 7631-86-9

SUPPLIER:

Applied Material Solutions, Inc.
1001 E. Centralia Street
Elkhorn, WI 53121
Phone: (262)723-6595 Fax: (262)723-3830

Emergency telephone: 1-800-535-5053 (INFOTRAC)
24 Hours day / 7 Days week

2) HAZARDS

Classification: Product is not classified as hazardous under GHS criteria or OASHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label Elements:

Symbol(s): None

Signal Word(s): None

Hazard statement(s): None

Precautionary statement(s):

Prevention: P261 Avoid breathing dust/mists
 P264 Wash hands thoroughly after handling
 P280 Wear protective gloves/clothing/eye/face protection

Response: P330 Rinse mouth
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.
 P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
 P314 Get medical advice/attention if you feel unwell.

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Storage: P402+P404 Store in a dry place. Store in a closed container.
 Disposal: P501 Dispose of contents/container according to all applicable Local/State/Federal regulations.

Other Hazards: See Section 11 for health effects. See Section 12 for environmental effects.

3) COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENT NAME</u>	<u>CAS NUMBER</u>	<u>Concentration (% by wt)</u>
Synthetic Amorphous Silica	7631-86-9	30-60 %

Other Comments:

4) FIRST AID MEASURES**First aid measures:**

Eye: Remove any contact lenses if easily done. Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

Skin: Wash with soap and water. Get medical attention if irritation develops or persists.

Inhalation: In case product dust is released: Possible discomfort via coughing and sneezing. Remove to fresh air.

Oral: If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

Most important symptoms/effects: None known

Notes to physician: No hazards which require special first aid measures

5) FIRE FIGHTING MEASURES

Flammability assessment: Not flammable

Unsuitable extinguishing media: None Known

Specific firefighting measures: All extinguishing methods are suitable for any firefighting in area of product storage or use.

Specific hazards during firefighting: None known

Special protective equipment and Precautions for firefighters: As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6) ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Wear personal protective equipment. See section 8

Methods and materials for containment and cleaning up:

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Collect using pump or absorbent. Place material into properly labeled sealed containers. After cleaning, rinse area with water. No special environmental precautions are required. Dispose of material in accordance with local regulations.

7) HANDLING AND STORAGE**Precautions for safe handling:**

Wear personal protective equipment. Avoid formation of respirable particles. Avoid inhalation of dust. Do not breathe dust or mist. Avoid direct contact with eyes, skin, or clothing. Wash hands before breaks and at the end of the day.

Conditions for safe storage:

Keep from Freezing. Keep container closed in a dry, cool place when not in use. Avoid dust formation. Provide appropriate exhaust ventilation where dust is formed.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS								
Component	CAS #	OSHA PEL		ACGIH TLV		NIOSH REL		FORM
		TWA	CEILING	TWA	STEL	TLV-TWA	SKIN	
Silica, Amorphous	7631-86-9	0.8 mg/m ³	20 mppcf					Powder
Dust	N/A	5 mg/m ³	10 mg/m ³	3 mg/m ³	10 mg/mg ³			Dust

Engineering Controls:

Local Ventilation: Provide adequate exhaust ventilation to keep dust concentration below occupational exposure guidelines. (3mg/m³).

General Ventilation: Recommended

Personal Protective Equipment for Routine Handling and Spills:

Eyes: Wear safety glasses with side shields (or goggles) and a face shield.

Skin: The glove(s) listed below may provide protection against permeation.

Suitable Gloves: rubber, leather, latex, nitrile

Inhalation/Suitable Respirator: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. Niosh's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Precautionary Measures: Wash hands before eating or smoking. Remove contaminated clothing and wash before reuse.

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9) PHYSICAL AND CHEMICAL PROPERTIES

Flash Point:		NA
Flammability Limits in Air:	Lower Limit	NA
	Upper Limit	NA
Auto-ignition Temperature:		NA
Decomposition Temperature:		NA
Flammability:		Not Flammable
Appearance:		Clear to white liquid
Odor:		None
Odor Threshold:		NA
pH (100.0 % @ 25°C):		9.0-10.5
Melting/Freezing Point:		32 F / 0 C
Boiling Point:		212 F / 100 C
Evaporation Rate:		Equal to water
Viscosity @ 25°C:		< 100 cPs
Volatile Organic %:		ND
Vapor Pressure:		NA
Vapor Density (Air=):		ND
Bulk Density @ 25°C:		NA
Relative Density @ 25°C:		1.28 – 1.31
Solubility in Water:		Miscible
Partition Coefficient (n-octanol/water):		NA

The Physical data presented here are representative values, as the actual product's values may vary slightly.

10) STABILITY AND REACTIVITY

Reactivity:	None expected
Chemical stability:	Stable under normal storage/use conditions
Possibility of hazardous reactions:	None known
Conditions to avoid:	None known
Incompatible materials:	None known
Hazardous decomposition products:	None known

11) TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral:	LD50 Rat: >1000 mg/kg
Dermal:	LD50 Rat: >2000 mg/kg
Inhalation:	Information not available

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Skin corrosion/irritation:	Rabbit: Not irritating
Serious eye damage/irritation:	Rabbit: Not irritating
Respiratory sensitization:	Silicosis or other product specific illness or the respiratory tract has not been reported.
Skin sensitization:	Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash).
Specific Target Organ Toxicity (single exposure):	Information not available
Aspiration hazard:	Information not available

Chronic Effects:

Germ cell mutagenicity:	Negative
Carcinogenicity:	Not expected
Reproductive toxicity:	Not expected
Specific Target Organ Toxicity (repeated exposure):	Not determined

Likely Routes of Exposure/Symptoms:

Eye:	May cause eye irritation
Skin:	Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash).
Inhalation:	Prolonged inhalation may cause irritations of the respiratory tract.
Oral:	No hazard expected in normal use.

12) ECOLOGICAL INFORMATION

Ecotoxicity:	Toxicity to fish:LC50 (Brachrdanio reio): >10000 mg/l /96 hr. Method: OECD 203 Toxicity to daphnia:EC ₅₀ Daphnia magna: >10000 mg/l /24 hr. Method: OECD 202
Persistence and degradability:	Solids removed from water by sedimentation or binding to sludge.
Bioaccumulative potential:	Solution is not expected to bio-accumulate.

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Mobility in soil:	Not expected
Other adverse effects:	Increase in TSS. Materials can be removed by sedimentation or flocculation into sludge.

13) DISPOSAL CONSIDERATIONS**Disposal considerations:**

Dispose as dry waste in accordance with all local, state and federal regulations.

Empty container warnings:

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

14) TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101): Not regulated by DOT, IMDG, ICAO/IATA.

UN Number:

DOT Proper Shipping Name:

DOT Technical Name:

DOT Hazard Class(es):

DOT Packing Group:

Marine Pollutant:

Air Shipment (IATA): Not regulated by DOT, IMDG, ICAO/IATA.

Ocean Shipment (IMDG): Not regulated by DOT, IMDG, ICAO/IATA.

Transport in bulk: Not regulated by DOT, IMDG, ICAO/IATA.

Special precautions:

15) REGULATORY INFORMATION**International Chemical Inventory Status:**

USA (TSCA):	Components of this product are listed
DSL:	Components of this product are listed
EINICS:	Components of this product are listed
AICS:	Components of this product are listed
CANADIAN WHMIS:	This SDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.
CANADIAN WHMIS CLASS:	Not a WHMIS control material.

EPA SARA Title III Chemical Listings:

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Section 302 Extremely Hazardous Substances:

Component Name	CAS Number	wt %	Hazard
None			

Section 304 CERCLA Hazardous Substances:

Component Name	CAS Number	wt%	Reportable Quantity (#)
None			

Section 312 Hazard Class:

Acute: Yes No
 Chronic: Yes No
 Fire: Yes No
 Pressure: Yes No
 Reactivity: Yes No

Section 313 Toxic Chemicals: Only chemicals which exceed the reporting threshold are included below:

Component Name	CAS Number	wt%
None		

Other Regulatory Concerns:

State right to know:

Components	CAS Number	CA Prop 65	NJ	PA	MA
Amorphous Silica	7631-86-9			Yes	
Silica, Amorphous, Precipitate and Gel	112929-00-8		Yes		
Product		No			

16) - OTHER INFORMATION

Revision date: 17 March 2021
 Reason for change: Document Review
 Revised by: MTJ
 Reviewed by: NW
 Approval date: 17 March 2021
 Version: 4.0

	Health	Fire	Reactivity	Special
HMIS:	1	0	0	

Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information in the SDS must be considered.

AMSoI™ 4015**HMIS = Hazardous Material Information System*****Chronic effect**

Disclaimer: This safety data sheet (SDS) was prepared in accordance with the 29 CFR 1910.1200. The information contained herein is based upon data available to us and reflects our best professional judgement. However, no warranty is expressed or implied regarding the accuracy of such information or the results obtained from the use thereof. We assume no legal responsibility whatsoever for any damage resulting from reliance upon this information since it is being furnished upon the condition that the person receiving it shall make his or her own determination of the suitability of the material described herein for a particular application, storage, or disposal situation.