

# Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 07/12/2021 Supersedes: 07/21/2003 Version: 1.0

SECT	ON 1: Identification				
1.1.	Identification				
Produc		: Substance			
Trade		: Silica Microspheres - Dr	y, 0.5µm		
	cal name	:			
CAS-N		: 7631-86-9			
Produc	ct code	: 25342			
Formu	la	: O2Si			
1.2.	Recommended use and restrictions or	1 use			
Recom	nmended use	: Use as laboratory reage	nt, Manufacture of sub	ostances	
1.3.	Supplier				
Warrin T +1 2					
1.4.	Emergency telephone number				
Emerg	ency number	: 24-hour emergency photo	ne number ChemTel 1	-800-255-3924	
SECT	ON 2: Hazard(s) identification				
2.1.	Classification of the substance or mix	turo			
		luio			
GHS US Not clas	S classification				
	S labeling ling applicable Other hazards which do not result in c	lassification			
No addit	tional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not app					
		on ingradianta			
3.1.	ON 3: Composition/Information Substances	on ingreatents			
			Due de sétido sétificos	0/	
Nam			Product identifier	%	GHS US classification
	Microspheres - Dry, 0.5µm constituent)		(CAS-No.) 7631-86-9	≤ 100	Not classified
-ull text	of hazard classes and H-statements : see	section 16			
3.2. Mixtures					
Not applicable					
SECTI	ON 4: First-aid measures				
l.1.	Description of first aid measures				
First-aid measures general : Call a physician immediately.					
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.					
First-aid measures after skin contact : Wash skin with plenty of water.					
First-aid measures after eye contact : Rinse eyes with water as a precaution.					
	id measures after ingestion	: Rinse mouth. Call a physical			
	-				
1.2.	Most important symptoms and effects	(acute and delayed)			
io addi	tional information available				

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4.3.				
	mptomatically.			
	ON 5: Fire-fighting measures			
5.1. Suitabl	Suitable (and unsuitable) extinguishin e extinguishing media	g media : Water spray. Dry powder. Foam.		
5.2.	Specific hazards arising from the cher			
Hazard	lous decomposition products in case of	: Toxic fumes may be released.		
fire				
5.3.	Special protective equipment and pre-	-		
Protec	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
SECTI	ON 6: Accidental release measu	ires		
6.1.	Personal precautions, protective equi	pment and emergency procedures		
6.1.1.	For non-emergency personnel			
Emerg	ency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2.	For emergency responders			
Protec	tive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2.	Environmental precautions			
Avoid re	lease to the environment.			
6.3.	Methods and material for containment	and cleaning up		
Metho	ds for cleaning up	: Mechanically recover the product.		
Other i	nformation	: Dispose of materials or solid residues at an authorized site.		
6.4.	Reference to other sections			
	er information refer to section 13.			
	ON 7: Handling and storage			
7.1.	Precautions for safe handling			
	itions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.		
пудіег	e measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2.	Conditions for safe storage, including			
Storag	e conditions	: Store at room temp. Store in a well-ventilated place. Keep cool.		
SECTI	ON 8: Exposure controls/persor	nal protection		
8.1.	Control parameters			
Silica	a Microspheres - Dry, 0.5µm (7631-86-9)			
No a	dditional information available			
8.2.	Appropriate engineering controls			
Approp	priate engineering controls	: Ensure good ventilation of the work station.		
Enviro	nmental exposure controls	: Avoid release to the environment.		
8.3.	Individual protection measures/Perso	nal protective equipment		
Hand	protection:			
Prote	ective gloves			
Eye j	protection:			
Safet	Safety glasses			
Skin	and body protection:			

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Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and ch	nemical properties
Physical state	: Solid
Appearance	: White powder.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: ≥4.0 approximately 4% silica in water
Melting point	: 1710 °C C
Freezing point	: Not applicable
Boiling point	: 2230 °C C
Flash point	: no data
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: no data
Relative vapor density at 20°C	: no data
Relative density	: No data available
Molecular mass	: 60.09
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2.	Chemical stability		
Stable under normal conditions.			
10.3.	Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.			
10.4.	Conditions to avoid		
None under recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials		

No additional information available

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10.6.	Hazardous decomposition produc	ts

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information	ation
11.1. Information on toxicological effect	is
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Silica Microspheres - Dry, 0.5µm (7631-8	6-9)
LD50 oral rat	mg/kg
Skin corrosion/irritation	: Not classified
	pH: $\geq$ 4.0 approximately 4% silica in water
Serious eye damage/irritation	: Not classified
	pH: ≥ 4.0 approximately 4% silica in water
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Silica Microspheres - Dry, 0.5µm (7631-86	6-9)
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
SECTION 12: Ecological informatio	n
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	

No additional information available

## 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	

Department of Transportation (DOT) In accordance with DOT

Not applicable

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#### **Transportation of Dangerous Goods**

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Silica Microspheres - Dry, 0.5µm (7631-86-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### CANADA

Silica Micros	nheres - Dry	/ 0.5um/	(7631-86-9)
Sinca Micros	pileles - Diy	, U.SµIII (	1031-00-31

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

#### **National regulations**

No additional information available

#### 15.3. US State regulations

Silica Microspheres - Dry, 0.5µm (7631-86-9)	
State or local regulations	U.S Massachusetts - Right To Know List
	U.S Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

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Hazard Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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