

Safety Data Sheet

Material Name: CENOSPHERES

SDS ID: 00230433

*** Section 1 - PRODUCT AND COMPANY IDENTIFICATION ***

Material Name: CENOSPHERES

Manufacturer Information

CMC Cometals
CONTACT:
2050 Center Avenue, Suite 250
Ft. Lee, NJ 07024
Mfg Contact: CMC Cometals

EMERGENCY

Synonyms

GLASS MICROSPHERES

*** Section 2 - HAZARDS IDENTIFICATION ***

EMERGENCY OVERVIEW

Physical Form: spheres

POTENTIAL HEALTH EFFECTS

Inhalation

Short Term: irritation, difficulty breathing

Long Term: difficulty breathing

Skin

Short Term: irritation

Long Term: no information is available

Eye

Short Term: irritation

Long Term: no information is available

Ingestion

Short Term: no information is available

Long Term: no information is available

*** Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS ***

CAS	Component	Percent	Symbol(s)	Risk Phrase(s)
65997-17-3	GLASS 266-046-0	100	---	---

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Glass wool fiber.

*** Section 4 - FIRST AID MEASURES ***

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

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Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eyes

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion

If a large amount is swallowed, get medical attention.

*** Section 5 - FIRE FIGHTING MEASURES ***

See Section 9 for Flammability Properties

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Flammable Properties

Negligible fire hazard.

Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

*** Section 6 - ACCIDENTAL RELEASE MEASURES ***

Occupational spill/release

Collect spilled material in appropriate container for disposal.

*** Section 7 - HANDLING AND STORAGE ***

Handling Procedures

Use methods to minimize dust.

Storage Procedures

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

*** Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION ***

Component Exposure Limits

GLASS (65997-17-3)

ACGIH: 1 fiber/cm³ TWA (respirable fibers: length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination)

NIOSH: 3 fibers/cm³ TWA (fibers ≤ 3.5 µm in diameter and ≥ 10 µm in length); 5 mg/m³ TWA (total)

Ventilation

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

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Protective Clothing

Wear appropriate chemical resistant clothing.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Respiratory protection is ranked in order from minimum to maximum.

Consider warning properties before use.

Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100 or P100.

Any air-purifying full-facepiece respirator equipped with an N95, R95, or P95 filter. The following filters may also be used: N99, R99, P99, N100, R100 or P100.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

Any powered, air-purifying respirator with a tight-fitting facepiece and a high-efficiency particulate filter.

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.

For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

*** Section 9 - PHYSICAL AND CHEMICAL PROPERTIES ***

Physical State:	Solid	Appearance:	Not available
Physical Form:	spheres	Odor:	Not Available
Odor Threshold:	Not available	pH:	7 - 9.4
pH (solution):	aqueous suspension	Melting Point:	>1250 °C
Boiling Point:	Not applicable	Vapor Pressure:	Not applicable
Vapor Density (air = 1):	Not applicable	Bulk Density:	0.25 - 0.40 g/cm ³
Density:	0.5 - 0.9 g/cc	Specific Gravity (water = 1):	Not available
Water Solubility:	Not available	Coeff. Water/Oil Dist:	Not available

*** Section 10 - STABILITY AND REACTIVITY ***

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

None reported.

Materials to Avoid

strong acids

GLASS:

HYDROFLUORIC ACID: Incompatible.

Decomposition Products

oxides of sodium, oxides of magnesium, oxides of calcium, oxides of titanium

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Possibility of Hazardous Reactions

Will not polymerize.

*** Section 11 - TOXICOLOGICAL INFORMATION ***

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

RTECS Acute Toxicity (selected)

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Component Carcinogenicity

GLASS (65997-17-3)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC: Monograph 81 [2002]; Monograph 43 [1988] (Group 3 (not classifiable))
NTP: Reasonably Anticipated To Be A Human Carcinogen (respirable size)
OSHA: Present

RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Local Effects

GLASS (65997-17-3)

Irritant: inhalation, skin, eye.
Corrosive: inhalation, skin, eye, ingestion.

Target Organs

GLASS (65997-17-3)

immune system (sensitizer), central nervous system, kidneys, nervous system.

RTECS Tumorigenic

The components of this material have been reviewed, and RTECS publishes the following endpoints:

GLASS (65997-17-3)

400 mg/kg intraperitoneal hamster TDLo; 125 mg/kg intratracheal hamster TDLo (5 week(s)); 1600 mg/kg implant mouse TD; 25 mg/kg intraperitoneal rabbit TDLo; 200 mg/kg implant rat TD; 200 mg/kg implant rat TDLo; 5 mg/m³ inhalation rat TCLo (7 hour(s)); 50 mg/kg intraperitoneal rat TDLo; 100 mg/kg intrapleural rat TD

RTECS Mutagenic

The components of this material have been reviewed, and RTECS publishes the following endpoints:

GLASS (65997-17-3)

micronucleus test hamster lung 2 ug/cm²; other mutation test systems hamster ovary 10 mg/L; other mutation test systems human fibroblast 10 mg/L

HEALTH EFFECTS

Inhalation - Acute Exposure

GLASS: May cause coughing and shortness of breath.

Inhalation - Chronic Exposure

GLASS: May affect breathing capacity.

Skin Contact - Acute Exposure

GLASS: May cause mechanical irritation.

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Skin Contact - Chronic Exposure

GLASS: No data available.

Eye Contact - Acute Exposure

GLASS: May cause mechanical irritation.

Eye Contact - Chronic Exposure

GLASS: No data available.

Ingestion - Acute Exposure

GLASS: No data available.

Ingestion - Chronic Exposure

GLASS: No data available.

*** Section 12 - ECOLOGICAL INFORMATION ***

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

*** Section 13 - DISPOSAL CONSIDERATIONS ***

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

*** Section 14 - TRANSPORT INFORMATION ***

US DOT Information

No Classification assigned.

TDG Information

No Classification assigned.

ADR Information

No Classification assigned.

RID Information

No Classification assigned.

IATA Information

No Classification assigned.

ICAO Information

No Classification assigned.

IMDG Information

No Classification assigned.

*** Section 15 - REGULATORY INFORMATION ***

U.S. Federal Regulations

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

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U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
GLASS (related to: Glass wool fiber)	65997-17-3	Yes ¹	Yes ¹	Yes	No	Yes ¹	Yes ¹

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Component Analysis

GLASS (65997-17-3)

Carc: carcinogen, initial date 7/1/90 (airborne particles of respirable size)

Canada

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
GLASS	65997-17-3	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes

* * * Section 16 - OTHER INFORMATION * * *

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

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Other Information

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