



ARIHANT CHEMICAL CORPORATION & J.J ENTERPRISE

For paints / inks / plastic / Rubber industries Raw material available with us under self import
/ Manufacturing / Trading.

MATERIAL SAFETY DATA SHEET :- Yttria Zirconia Beads

Section I. Chemical Product and Company Identification

Product Name: Yttria-Stabilized Zirconia
Product Code: YSZ
CAS Number: Mixture
Manufacturer's Name:
Address:
Emergency Tel #:
Information Tel#:
Date Prepared:

Section II. Composition / Information on Ingredients

Component	CAS #	% (Approx.)	Exposure Limits	
			ACGIH TLV	OSHA PEL
Zirconium Oxide	1314-23-4		5 mg/m ³ (as Zr)	5 mg/m ³ (as Zr)
Yttrium Oxide	1314-36-9		1 mg/m ³ (as Y)	1 mg/m ³ (as Y)

Section III. Physical Data

Boiling Point: Not Applicable Specific Gravity: No Data
Melting Point: No Data Solubility in H₂O: Insoluble
Vapor Pressure: Not Applicable Evaporation Rate: Not Applicable

% Volatiles by volume: Not Applicable Odor: odorless Appearance:
Very fine white to yellow powder

Section IV. Fire and Explosion Hazard Data

Flash Point: (°F) Not Applicable
Flammable Limits in Air, % by volume Lower: Not
Applicable Upper: Not Applicable

Regd Off: - Plot no 24 Block no .5, 1st floor, Behind Aurora cinema , opp Sahakari bhandar,
Matunga (C.R) Mumbai – 400019

Administration /correspondence Office :- Plot No. 319,Room No.3, Ranchoddas Terrace building ,sir
Bhalchandra Road, opp Hira House, Near Chhatre Maternity Hospital, Matunga (C.R) Mumbai – 400019 Tel :-
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Autoignition Temperature: No data

Extinguishing Media: Use water, carbon dioxide, dry chemical extinguishing agents, dry sand, or dry ground dolomite.

Special Fire Fighting Procedures: No special firefighting procedures needed. Use normal procedures, which include wearing NIOSH/MSHA, approved self-contained breathing apparatus, flame and chemical resistant clothing; hats, boots and gloves. If without risk, remove material from fire area. Cool container with water from maximum distance.

Unusual Fire and Explosion Hazard: None known

Section V. Reactivity Data

Incompatibility: No data

Hazardous Decomposition Products: No data

Conditions to Avoid: No data

Stability: Stable

Hazardous Polymerization: Will not occur

Other: None

Section VI. Environmental Information

RCRA Code: None

TSCA Registered: Yes, as separate components.

Spill and Leak Procedures: Wearing full protective equipment, cover spill with dry sand or vermiculite.

Mix well and carefully transfer to a container.

Waste Disposal Method: Disposal of waste should be handled in a manner that complies with local, state, and federal Environmental Protection Agency regulations.

Section VII. Health Data

OSHA (PEL): See section 2

ACGIH (TLV): See section 2

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Animal Toxicity

LD50: No data

LC50: No data

Other: None

Effects of Exposure

Acute Effects —

Ingestion —May be harmful, effects not known.

Inhalation May— cause irritation

Skin Contact— May cause irritation

Eye Contact May cause irritation —

Medical Conditions Aggravated— by Chemical None known

Other Health Hazards Rare earth compounds may cause delayed blood clotting leading to hemorrhages. —

Most Likely Routes of Entry Ingestion

Chronic Effects —

Ingestion —None known

Inhalation None— known

Skin Contact— None known

Eye Contact— None known

Other None known—

Carcinogenicity NTP: no IARC: no OSHA: no EPA: no

Emergency and First Aid Procedures

Inhalation: No specific information available, but one should obtain medical attention. Ingestion: No data available but one should obtain medical attention.

Skin: Remove contaminated clothing. Flood skin with large amounts of water. If irritation persists seek medical attention.

Eyes: Immediately flush eyes, including under eyelids, with large amounts of water for at least 15 minutes. Call a physician.

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Section VIII. Protection Information

Ventilation Requirements: Laboratory fume hood

Respiratory Protection: High efficiency particle respirator

Protective Gloves: rubber

Eye/Face Protection: ANSI approved safety goggles

Section IX. Special Precautions

Handling and Storage: Keep container tightly closed. Store in a cool, dry, well-ventilated area. Wash thoroughly after use.

Other Precautions: Lab coat and apron, flame and chemical resistant coveralls, eyewash capable of sustained flushing, safety drench shower and hygienic facilities for washing.

Section X. Comments

WARNING: May irritate skin, eyes, and lungs.

MSDS Prepared by:

Vendee and third persons assume the risk of injury proximately caused by the material if reasonable safety procedures are not followed as provided for in the data sheet, and vendor shall not be liable for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed.

All persons using this product, all persons working in an area where this product is used, and all persons handling this product should be familiar with the contents of this data sheet. This information should be effectively communicated to employees and others who might come in contact with the product.

While the information accumulated and set forth herein is believed to be accurate as of the date hereof, NexTech Materials, Ltd. makes no warrant with respect thereto and disclaims all liability from reliance thereon. Recipients are advised to confirm in advance that the information is current, applicable, and suitable for their particular circumstances.

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