

SAFETY DATA SHEET

DURAMAX D-99 Series Alumina



1 IDENTIFICATION

PRODUCT IDENTIFIER

Product Name: DURAMAX D-99, D-99.5, D-99-HD, D-99-T, MHT-20, HTS-WG, T-64, other alumina spheres, shapes or granular products.

RECOMMENDED USE AND RESTRICTIONS OF USE

Recommended Use: Inert catalyst support and topping material
Restrictions of Use: None known

NAME, ADDRESS, AND TELEPHONE NUMBER OF THE RESPONSIBLE PARTY

Company: M Chemical Company, Inc.
Address: 825 Colorado Boulevard, Suite 214
Los Angeles, CA 90041 USA
Telephone: (323) 254-3600

Initial Supplier Identifier
Données relatives au fournisseur

Univar Solutions Canada Ltd.

64 Arrow Road
North York, ON M9M 2L9
Telephone: 1-866-686-4827

EMERGENCY TELEPHONE NUMBER

CHEMTREC: 1 (800) 424-9300 [Contract number 225543]
Contact only in the event of chemical emergencies involving spill, leak, exposure, or accident involving this chemical.

2 HAZARD(S) IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE

This product is supplied as an article. This product is not classified as hazardous under the OSHA Hazard Communication Standard (29 CFR §1910.1200) or GHS in the form in which it is shipped by the manufacturer, under normal conditions of use, or during foreseeable emergencies. Chronic health effects (such as impaired lung function and/or cancer) are not expected to arise during normal conditions of use unless the particle size of the product is reduced by processing (for example grinding or pulverizing) to produce a respirable dust.

Hazard(s): Not applicable (N/A)

SIGNAL WORD, HAZARD STATEMENTS, SYMBOLS, & PRECAUTIONARY STATEMENTS

Signal Word: Not applicable (N/A)

Hazard Statement(s): Not applicable (N/A)

Hazard Pictogram(s): Not applicable (N/A)

Precautionary Statements: Not applicable (N/A)

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

None known

3 COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following component(s) for which exposure control limits have been established by ACGIH or OSHA (See Section 8: Exposure Controls/Personal Protection).

Chemical Name	CAS No.	Wt. %
Aluminum oxide	1344-28-1	> 99
Quartz	14808-60-7	< 0.2

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4 FIRST AID MEASURES

DESCRIPTION OF NECESSARY MEASURES

Eyes In case of contact with eyes, rinse immediately with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Get medical attention if irritation occurs.

Inhalation Remove to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical attention if respiratory irritation occurs.

Skin Wash immediately with plenty of water. Get medical attention if irritation or rash occurs.

Ingestion Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have person lean forward to reduce the risk of aspiration. Get medical attention immediately.

MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED

Eyes May cause eye irritation.

Inhalation May be harmful if inhaled. Inhalation of dust may cause respiratory irritation. Prolonged or repeated inhalation of dust may cause silicosis.

Skin May cause skin irritation.

Ingestion May be harmful if swallowed.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Notes to Physician: Inhalation of dust may cause cancer and/or aggravate pre-existing respiratory conditions.

5 FIRE FIGHTING MEASURES

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA

Suitable Use extinguishing media appropriate for the surrounding fire.

Unsuitable None known

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Non-flammable material. Spilled spheres may present a slip hazard on floors.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Use protective equipment and precautions appropriate for the surrounding fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Do not breathe dust. Avoid personal contact. Wear personal protective equipment (See Section 8: Exposure Controls / Personal Protection). Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Spilled spheres may present a slip hazard on floors.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Avoid generating dusts. Collect spill with a vacuum cleaner equipped with a HEPA filter. Sweep up and collect material into suitable containers for reuse or disposal (See Section 13: Disposal Considerations).

7 HANDLING AND STORAGE

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PRECAUTIONS FOR SAFE HANDLING

Do not breathe dust and avoid personal contact. Wear personal protective equipment (See Section 8: Exposure Controls / Personal Protection). Do not eat, drink, or use tobacco products while working.

SPECIAL PRECAUTIONS: DO NOT generate small particles from this product by pulverizing, grinding, or any other means. Dust generated in this manner is harmful if inhaled. If the particle size of the product must be reduced during handling and/or use, contact us for additional information and seek expert advice to mitigate hazards associated with dust generation and accumulation.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a cool, dry, and well-ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROL LIMITS

Aluminum oxide CAS No. 1344-28-1	ACGIH	TLV®: 10 mg/m ³ Inhalable particulate matter containing no asbestos and ≤1% crystalline silica); not classifiable as a human carcinogen
	OSHA	PEL: 15 mg/m ³ total dust, 5 mg/m ³ respirable fraction Source: ChemIDplus
Quartz CAS No. 14808-60-7	ACGIH	TLV®: 0.05 mg/m ³ Remarks: Suspected human carcinogen
	OSHA	PEL: 250 / [(%SiO ₂)+5] mppcf (respirable fraction) PEL: 10 mg/m ³ / [(%SiO ₂) + 2] (respirable fraction) PEL: 30 mg/m ³ / [(%SiO ₂) + 2] (total dust)

Exposure control limits for these components have also been established in other countries.

APPROPRIATE ENGINEERING CONTROLS

Work in well ventilated areas. The use of local exhaust ventilation is recommended to control air contaminants. Provide mechanical ventilation for confined spaces. Use mechanical handling to reduce human contact with materials.

INDIVIDUAL PROTECTIVE MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

General Hygiene	Do not breathe dust. Avoid contact with eyes and skin. Wash thoroughly after handling and before eating, drinking, or using tobacco products.
Eye/Face Protection	Wear safety glasses with side shields or safety goggles.
Skin Protection	Wear protective gloves impervious to the conditions of use and protective clothing. Recommended materials for protective gloves include PVC, rubber, and other plastics.
Respiratory Protection	Wear NIOSH-approved respiratory protection if exposure to airborne dust is possible, if there is the potential for exposure to exceed control limits, and in non-routine or emergency situations.

9 PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	white shapes
Odor	no information available
Odor Threshold	no information available
Physical State	solid
pH value	no information available
Melting Point	no information available
Boiling Point	no information available
Flash Point	no information available
Evaporation Rate	no information available
Flammability	no information available
Upper Flammability Limit	no information available
Lower Flammability Limit	no information available
Vapor Pressure	no information available
Vapor Density	no information available
Specific Gravity	~ 2.6
Solubility in water	no information available
Partition Coefficient (octanol/water)	no information available
Autoignition Temperature	no information available
Decomposition Temperature	no information available
Viscosity	not applicable (N/A)

10 STABILITY AND REACTIVITY

REACTIVITY

No reactivity hazards are known under normal conditions of storage and use.

CHEMICAL STABILITY

This substance is expected to be stable under normal conditions of storage and use.

POSSIBILITY OF HAZARDOUS REACTIONS

None known

CONDITIONS TO AVOID

Formation of small particles (dust)

INCOMPATIBLE MATERIALS

Strong acids, strong bases, strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

None known

11 TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE, ACUTE AND DELAYED

Eyes	May cause eye irritation.
Inhalation	May be harmful if inhaled. Inhalation of dust may cause respiratory irritation. Prolonged or repeated inhalation of dust may cause silicosis.
Skin	May cause skin irritation.
Ingestion	May be harmful if swallowed.
Target Organ Effects	no information available
Chronic Effects	Prolonged or repeated inhalation of dust may cause silicosis.

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ACUTE TOXICITY

Oral	no information available
Inhalation	no information available
Dermal	no information available

Not expected to be acutely toxic based on composition.

SKIN CORROSION / IRRITATION

no information available

EYE DAMAGE / IRRITATION

no information available

SENSITIZATION

Respiratory Sensitization	no information available
Skin Sensitization	no information available

GERM CELL MUTAGENICITY

no information available

CARCINOGENICITY

The components of this product have been classified as to their carcinogenicity. This product is supplied in a non-dusting form, and is not classified as carcinogenic based on a lack of respirable particles in the form in which it is shipped by the manufacturer, under normal conditions of use, and/or during foreseeable emergencies.

Aluminum oxide

ACGIH: Not classifiable as a human carcinogen

Quartz

Classified as Category 1A according to GHS criteria

ACGIH: Suspected human carcinogen

NTP: Known to be a carcinogen

IARC Group 3 (not classifiable as to its carcinogenicity to humans)

REPRODUCTIVE TOXICITY

no information available

TARGET ORGAN TOXICITY

Single Exposure	no information available
Repeat/Prolonged Exposure	no information available

ASPIRATION HAZARD

no information available

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Acute toxicity - fish	no information available
Acute toxicity - algae	no information available
Acute toxicity - invertebrates	no information available
Acute toxicity - bacteria	no information available

PERSISTENCE AND DEGRADABILITY

no information available

BIOACCUMULATIVE POTENTIAL

no information available

MOBILITY IN SOIL

no information available

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OTHER ADVERSE EFFECTS

no information available

13 DISPOSAL CONSIDERATIONS

Recover or recycle if possible.

Disposal of product and contaminated packaging should be in accordance with applicable local, regional, national, and international laws and regulations. Local regulations may be more stringent than regional or national requirements.

14 TRANSPORT INFORMATION

UN NUMBER

not regulated

UN PROPER SHIPPING NAME

not regulated

TRANSPORT HAZARD CLASS(ES)

not regulated

PACKING GROUP

not regulated

ENVIRONMENTAL HAZARD(S)

no information available

TRANSPORT IN BULK

no information available

15 REGULATORY INFORMATION

INVENTORY STATUS

United States (TSCA)	Components listed or exempt
Canada (DSL)	Components listed or exempt
Europe (EINECS)	Components listed or exempt

USA FEDERAL SARA TITLE III RULES

Section 302 No components of this material are subject to the reporting requirements of SARA Title III, Section 302.

Section 304 No components of this material are regulated under SARA Title III, Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" list).

Section 313 This material contains no component(s) listed on the Section 313 Toxic Chemical List.

Section 311/312 Hazards: Acute health hazard, chronic (delayed) health hazard

USA STATE REGULATIONS

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

16 OTHER INFORMATION

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REVISION DATE

February 1, 2023

REASONS FOR REVISION

Compliance with 29 CFR §1910.1200 (GHS)

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