



Albemarle Corporation
Material Safety Data Sheet
 451 Florida Street, Baton Rouge, LA 70801
 For Emergencies Only - Phone (225) 344-7147
 For Non-Emergency Health & Safety Phone 1-800-535-3030
 Representing Albemarle Foreign Sales Corporation
 for Export Sales

ISSUE DATE: 06/16/08
 SUPERSEDES: 07/03/07
 HMIS CLASSIFICATIONS:
 HEALTH: 2
 FLAMMABILITY: 0
 REACTIVITY: 0

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PRODUCT IDENTIFICATION

PRODUCT NAME: Martoxid MZS-2; Martoxid MZS; Martoxid MPS-2;
 Martoxid MZS-1; Martoxid MDS; Martoxid MDS-6; Martoxid
 MZS-3; Martoxid MDLS-6; Martoxid MZS-12; Martoxid MRS

CHEMICAL NAME: Aluminum oxide

CAS NO.: 1344-28-1

CHEMICAL FORMULA: Al2O3

Manufactured by Martinswerk GmbH.

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SUMMARY OF HAZARDS

May cause skin and eye irritation.
 May cause respiratory tract irritation.
 See ''Other Health Effects.''

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OSHA HAZARDOUS COMPONENTS

CHEMICAL NAME	CAS NO.	NOTE	EXPOSURE LIMIT
Aluminum oxide	1344-28-1	ND	10 mg/m3 TWA8 total dust, 5 mg/m3 TWA8 respirable fraction (OSHA); 10 mg/m3 TWA8 (ACGIH)

NOTE: Carcinogenicity listing of components at concentrations

greater than or equal to 0.1% indicated by: @=NTP; #=IARC;
&=OSHA; +=ACGIH; *=OTHER; ND=Not Designated.

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CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE/ODOR: White crystalline powder/odorless.

BOILING POINT: 2700C

SOLUBILITY IN WATER: 1.5 ppm (Insoluble).

SPECIFIC GRAVITY: 2.42 g/cm3

PERCENT VOLATILE: Nil.

MELTING POINT: Not known.

PH: Alkaline

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FIRE AND EXPLOSION HAZARDS

FLASH POINT(METHOD): Not flammable.

FLAMMABLE LIMITS: Not applicable.

EXTINGUISHING MEDIA: None required.

SPECIAL FIRE FIGHTING PROCEDURES: None required.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

HAZARDOUS THERMAL DCOMPOSITION PRODUCTS: Magnesium oxide.

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REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: None known.

MATERIALS TO AVOID: Acids

HAZARDOUS POLYMERIZATION: Will not occur.

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HEALTH HAZARDS

INHALATION: Expected to be irritating to respiratory tract.

EYE CONTACT: Expected to be an eye irritant.

SKIN CONTACT: Expected to be a skin irritant.

INGESTION: Not expected to be acutely toxic.

CHRONIC EFFECTS OF OVEREXPOSURE: None known.

OTHER HEALTH EFFECTS: Overexposure may aggravate existing lung conditions affecting breathing capacity, such as alveoli damage.

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EMERGENCY FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.

INGESTION: If swallowed, give two glasses of water.

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EXPOSURE CONTROL INFORMATION

EXPOSURE LIMITS: See ''Components'' section.

EYE PROTECTION: Chemical goggles.

PROTECTIVE GLOVES: Resistant to chemical penetration.

RESPIRATORY PROTECTION: NIOSH approved dust/mist respirator under dusty or irritating conditions.

LOCAL EXHAUST VENTILATION: At source of mists or dusts.

MECHANICAL VENTILATION: Recommended.

OTHER: If repeated or prolonged skin contact or contamination of clothing is likely, protective clothing should be worn.

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ENVIRONMENTAL PROTECTION

SPILLS OR LEAKS: Sweep or shovel spills into appropriate

container for disposal.

DISPOSAL METHODS: To the best of Albemarle's knowledge, this product is not regulated by CERCLA/RCRA as a hazardous waste or material. However, this product has not been tested for the toxicity characteristic via the Toxicity Characteristic Leaching Procedure. Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal regulations.

STORAGE REQUIREMENTS: No special storage required.

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ADDITIONAL PRECAUTIONS OR COMMENTS

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REGULATORY INFORMATION

TSCA:

THIS MATERIAL IS IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (15 USC 2601 - 2629).

DOT DESCRIPTION/PROPER SHIPPING NAME:

NOT REGULATED FOR TRANSPORTATION

HAZARD CATEGORIES FOR SARA 311/312 REPORTING ARE INDICATED BELOW:

HEALTH	Immediate (Acute)	Yes
HEALTH	Delayed (Chronic)	No
PHYSICAL	Fire	No
PHYSICAL	Sudden Release of Pressure	No
PHYSICAL	Reactive	No
	Nuisance Mist/Dust Only	No

COMPONENT NAME	CAS NO.	PERCENTAGE	REGULATION
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Aluminum oxide	1344-28-1	100.0	NJ RTK PA.RTK

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ADDRESS CONTACT INFORMATION

MSDS prepared by: Health & Environment Department
Albemarle Corporation

FOR ADDITIONAL NONEMERGENCY PRODUCT INFORMATION, CONTACT:

HEALTH AND ENVIRONMENT DEPARTMENT

ALBEMARLE CORPORATION
451 FLORIDA ST.
BATON ROUGE, LA. 70801
(800) 535-3030

THIS MATERIAL SAFETY DATA SHEET CONTAINS AT LEAST
THE INFORMATION REQUIRED BY THE FEDERAL OSHA HAZARD
COMMUNICATION RULE, 29 CFR 1910.1200(g) (2).

THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH
USER. THE USER SHOULD CONSIDER THE HEALTH HAZARDS AND SAFETY
INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE
THOSE PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO
INSTRUCT EMPLOYEES AND TO DEVELOP WORK PRACTICE PROCEDURES
FOR A SAFE WORK ENVIRONMENT.

THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR
KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, BECAUSE THE
CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE
MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR
DAMAGES INCURRED BY THE USE OF THIS MATERIAL. IT IS THE
RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL,
STATE, AND LOCAL LAWS AND REGULATIONS.

06/16/08