

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Aluminum Oxide - Ticonium
Product Number: 90-25, 90-5, 90-50
Chemical Name: Fused Aluminum Oxide
Chemical Family: Refractory Oxide
CAS Number: Blend

Company Identification

Ticonium, Div. of CMP Industries LLC
413 North Pearl St
Albany, NY 12207-1311 USA
(518)-434-3147 (For product information)
(800)-424-9300 (For emergencies)
1-800-424-9300 or 1-202-483-7616 (CHEMTREC)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: Harmful: Danger to organs through prolonged or repeated exposure.

GHS Classification:

Carcinogenicity - Category 1
Category 3 (Respiratory tract irritation)

GHS Hazard Symbols:

Irritant, Health Hazard



GHS Hazard Statements:

H335 - May cause respiratory irritation.

GHS Precautionary Statements:

P304/341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

EYE:

May be slightly irritating.



SKIN:

May cause slight skin irritation.

INHALATION:

May cause irritation of the upper respiratory passages.

INGESTION:

Ingestion is not considered a potential route of exposure.

CHRONIC EFFECTS:

Exposure to excessive airborne concentrations may result in acute respiratory disorders.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

No known cancer hazards.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

Individuals with impaired pulmonary function should not be subjected to excessive airborne concentrations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
ALUMINUM OXIDE	96.4 %	1344-28-1
TITANIUM OXIDE (TiO ₂)	2.7 %	13463-67-7
SILICON DIOXIDE	0.5 %	7631-86-9
MAGNESIUM OXIDE	0.2 %	1309-48-4
IRON OXIDE	0.1 %	1309-37-1
CALCIUM OXIDE	0.1 %	1305-78-8

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains materials that are acute hazards.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes.

SKIN CONTACT FIRST AID:

Immediately flush skin with plenty of water for at least 15 minutes.

INHALATION FIRST AID:

Remove from area of exposure.

INGESTION FIRST AID:

Ingestion is not considered a potential route of exposure.



5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Non-flammable.

FIRE & EXPLOSION HAZARDS:

N/A.

FIRE FIGHTING INSTRUCTIONS:

None.

COMBUSTION PRODUCTS:

None.

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILLS PROCEDURE:

Normal precautions for inert or nuisance dust and particulates.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Use handling procedures that limit exposure to excessive airborne dust.

HANDLING (PHYSICAL ASPECTS):

Provide appropriate ventilation.

STORAGE PRECAUTIONS:

Keep dry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:



Wear gloves, arm sleeves & barrier cream for prevention of Dermatitis.

RESPIRATORY PROTECTION REQUIREMENTS:

If airborne concentrations exceed the OSHA TWA, a NIOSH approved dust mask is recommended.

EXPOSURE GUIDELINES:

ALUMINUM OXIDE

OSHA PEL: 10 mg/m³

OSHA TWA: 10 mg/m³

TITANIUM OXIDE (TiO₂)

OSHA PEL: 15 mg/m³

OSHA TWA: 10 mg/m³

SILICON DIOXIDE

OSHA Ceiling Limit: 20 ppm, 80 mg/m³

MAGNESIUM OXIDE

OSHA PEL: 10 mg/m³

OSHA TWA: 5 mg/m³

IRON OXIDE

OSHA TWA: 10 mg/m³

CALCIUM OXIDE

OSHA PEL: 5 mg/m³

OSHA TWA: 2 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Crystalline Solid
COLOR:	Brown
ODOR:	No odor
BOILING POINT:	5400 F
SOLUBILITY IN WATER:	Insoluble
SPECIFIC GRAVITY:	3.5 - 4.0 (Water = 1)

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

No information available.

12. ECOLOGICAL INFORMATION

No information available.



13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Dispose of waste material in accordance with all local, state/provincial, and national requirements.

14. TRANSPORT INFORMATION

PRODUCT LABEL:	Aluminum Oxide - Ticonium
D.O.T. SHIPPING NAME:	N/A
TECHNICAL SHIPPING NAME:	N/A
D.O.T. HAZARD CLASS:	N/A
UN NUMBER:	N/A

15. REGULATORY INFORMATION

REGULATORY LISTS SEARCHED:

01 = SARA 313	02 = CA Proposition 65
03 = SARA 302/304	04 = CERCLA 302.4
05 = ACGIH TWA	06 = ACGIH STEL
07 = ACGIH CALC TLV	08 = OSHA PEL
09 = CANADIAN WHMIS	10 = OSHA Ceiling

EEC Symbols and Indications of Danger:

Harmful (Xn)



R-Phrases:

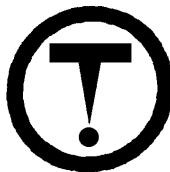
R36/38 - Irritating to eyes and skin.
R37 - Irritating to respiratory system.
R48/20 - Harmful: Danger of serious damage to health by prolonged exposure through inhalation.

S-Phrases:

S36 - Wear suitable protective clothing.
S39 - Wear eye/face protection.

WHMIS Hazard Symbols:

Class D2 - Materials Causing Other Toxic Effects



Canadian Disclosure List

ALUMINUM OXIDE (1344-28-1)

SARA Title III - Section 313

Aluminum Oxide - Ticonium (BLEND) --
ALUMINUM OXIDE (1344-28-1)

Title V

ALUMINUM OXIDE (1344-28-1)

16. OTHER INFORMATION

PREPARED BY:	John Nicpon
APPROVED BY:	John Nicpon
TITLE:	Quality Manager
APPROVAL DATE:	July 13, 2015
SUPERCEDES DATE:	October 31, 2013
RTN NUMBER:	00000128 (Official Copy)

HMIS Rating:

Health - 1
Flammability - 0
Reactivity - 0

NFPA Rating:

Health -
Flammability -
Reactivity -
Special Hazard - N/A

ABBREVIATIONS USED IN THIS MSDS:

TLV - THRESHOLD LIMIT VALUE	TWA - Time Weighted Average
STEL - SHORT TERM EXPOSURE LIMIT	TPQ - Threshold Planning Quantity
RQ - REPORTABLE QUANTITY	PEL - Permissible Exposure Limit
C - CEILING LIMIT	CAS - Chemical Abstract Service Number
NDA - NO DATA AVAILABLE	N/A - Not Applicable or Not Available

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END OF SAFETY DATA SHEET

