

# MSDS

## Material Safety Data Sheet

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In Case of Emergency contact CHEMTREC 1-800-424-9300

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### Vitreous Bonded Alumina Products

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#### 1 Product Identification

Synonyms: P87,P90,Arlcite,Endura

CAS No.: Not registered

Molecular Weight: not available

Chemical Formula: Mixture of alpha-alumina in a vitreous bond

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#### 2 Composition/Information on Ingredients

<u>Ingredient Name</u>	<u>Chemical Formula</u>	<u>CAS#</u>	<u>Percent</u>	<u>Hazardous (Yes/No)</u>
Alumina	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	<92	Yes
Silica(amorphous)	SiO <sub>2</sub>	60676-86-0	<9	Yes
Magnesia	MgO	1309-48-4	<5	Yes
Calcia	CaO	1305-78-8	<5	Yes
Barium oxide	BaO	1304-28-5	<2	Yes

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#### 3 Hazards Identification

##### Emergency Overview

Health Rating: 1-slight

Flammability Rating: 0-none

Reactivity Rating: 0-none

Contact Rating: 0-none

Protective Equipment none required unless cutting or machining . Then Goggles and dust mask.

Storage: General

##### Potential Health Effects

Inhalation: Nuisance dust. May cause irritation and abrasion to respiratory tract.

Ingestion: No adverse effects expected

Skin Contact: could cause abrasion with reddening and pain.

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**4 First Aid Measures**

- Inhalation:** Remove to fresh air. Obtain medical attention for any breathing difficulty.
- Ingestion:** Give water to dilute. Obtain medical advice for large amounts of consumption.
- Skin Contact:** Wash with water to remove. Obtain medical attention if rash or irritation develops.
- Eye Contact:** Flush with plenty of water. Obtain medical attention if irritation persists.

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**5 Fire Fighting Measures**

- Fire:** Not a fire hazard will not support combustion.
- Explosion** Non explosive.
- Fire Extinguishing Media:** Select for surrounding fire source.
- Special Information:** Use protective clothing and breathing equipment appropriate for surrounding fire.

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**6 Accidental Release Measures**

As sold this product is a "article" excluded under section 9 exclusion. When machining or cutting. Use adequate ventilation. Use of dust mask or respirator recommended during dry cutting. Sweep or vacuum spilled machining debris. Disposal in suitable land fill. Follow all local and state guide lines for disposal.

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**7 Handling and Storage**

No special requirements. Store in dry area and protect containers from damage which could result in spillage.

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## 8 Exposure Controls / Personal Protection

### Exposure limits:( Ingredients)

Ingredient Name	OSHA-PEL(mg/M <sup>3</sup> )	ACGIH-TLV(mg/M <sup>3</sup> )
Alumina	15	10
Silica	0.1	0.1
Magnesia	15	10
Calcia	5	2
Barium oxide	not listed	not listed

### Exposure limits:(Product)

Ingredient Name	OSHA-PEL(mg/M <sup>3</sup> )	ACGIH-TLV(mg/M <sup>3</sup> )
Arlcite/P87/P90/Endura	15	10

### Ventilation Systems:

Use local ventilation when machining and general exhaust. Use approved dust mask or respirator when machining. Nuisance dust.

**Inhalation Protection:** Use approved particulate dust mask or respirator when machining. Nuisance dust.

**Skin Protection:** Use gloves and aprons commensurate with good industrial hygiene.

**Eye Protection:** Wear safety glasses/goggles when machining. Material is brittle and prone to splintering. Maintain eye wash fountain in work area.

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## 9 Physical and Chemical Properties

**Appearance:** White solid component or powder when machining.

**Odor:** none

**Solubility:** none in water slightly soluble in strong acids or alkalis

**Specific Gravity:** 3.5-3.6

**pH:** none as solid cutting debris will be slightly caustic pH= 8.0-8.5

**% Volatiles by Volume:** none

**Boiling Point:** 2850C  
**Melting Point:** 2000C  
**Vapor Density(Air=1):** not applicable  
**Vapor Pressure(mm Hg):** not applicable  
**Evaporation Rate(BuAc=1):** not applicable

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**10 Stability and Reactivity**

**Stability:** stable .

**Hazardous Decomposition Products:** none known.

**Hazardous Polymerization:** none.

**Incompatibilities:** Chlorine trifluoride, ethylene oxide.

**Conditions to Avoid:** Incompatibles.

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**11 Toxicological Information**

Not available on product. Dust from machining could contain crystalline silica which is a anticipated carcinogen. allother components are listed as not known or not anticipated to be a carcinogen.

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**12 Ecological Information**

**Environmental Fate**.....

No information available.

**Environmental Toxicity**.....

No information available.

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**13 Disposal Considerations**

What cannot be recovered or recycled should be placed in container for land fill disposal.

Contamination of product could change waste management options. Comply with all Federal, State and Local requirements.

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**14      Transport Information**

Not regulated.

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**15      Regulatory Information**

**Chemical Inventory Status-----Part 1**

<u>Ingredient</u>	<u>TSCA</u>
alumina	yes
silica	yes
calcia	yes
magnesia	yes
Barium oxide	yes

**Federal,State and International Regulations -----Part 1**

<u>Ingredient</u>	<u>SARA-302</u>	<u>SARA - 313</u>
alumina	no	yes
silica	no	no
calcia	no	no
magnesia	no	no
Barium oxide	no	yes

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**16      Other Information**

**Product Use:**      industrial applications.

**Disclaimer:**

The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained individual. Individuals receiving the information must exercise their independent judgment in determining the appropriateness for a particular purpose.