



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
25-141-90

Product Name: Essix Bur Blocks

Release Date: April 17, 2007

1. Product and Company Identification

Trade Name & Synonyms Bur block # 53500	MSDS Code Number Refer to part number
Chemical Name Aluminum alloy	Manufacture / Distributor GAC International Inc.
C.A.S. Number 7429-90-5	Address 355 Knickerbocker Ave. Bohemia, NY USA 11716
Grades or Minor Variant Identities NA	Information Telephone Number 1-631-419-1700
Product Use (for Canada) NA	Emergency Telephone Number 1-631-419-1700

2. Composition of Ingredients

Hazardous Components	TLV(mg/m3)	PEL (mg/m3)	?(mg/m3)	C.A.S. Number	Exposure Limits	%
Aluminum	10(d)	15(TP) 5(RF)	10 (TP) 5(RF)	7429-90-5	NA	83-99
Chromium	0.5	1.0	0.5	7440-47-3	NA	.01-.4
Cobalt	0.02	0.05	0.05	7440-48-4	NA	1-10
Copper	0.2(f) 1(d,m)	0.1(f) 1(d,m)	0.1(f,hr) 1(d,m)	7440-50-8	NA	.05-6
Lead	.15(f,d)	.05(f,d)	<0.1	7439-92-1	NA	.4-.7
Magnesium*	5(f)	1(f,c) 3(f,c)	10(f)	1309-48-4	NA	.4-.7
Nickel	0.05	0.1	.015	7440-02-0	NA	<.3
Zinc	5(f) 10(TP) 10(s,f)	5(f) 10(TP) 5(RF)	5(f,hr) 10(f,s) 5(TP) 10(s,f) 15(c,s)	7440-66-6	NA	05.6

D=dust, f=fumes, m=mists, TP=total particulates, RF=respirable fraction,
c=ceiling concentration, s=short term exposure limit, hr-10hr TWA.
*NOTE: Regulatory information is for magnesium oxide or zinc oxide.

3. Hazard Identification

Emergency Overview NA					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	NA	NA	NA	NA	NA
Skin	NA	NA	NA	NA	NA
Inhalation	NA	NA	NA	Acute: Inhalation of dust or fumes may be irritating to the respiratory tract. Chronic: This product may contain trace amounts of nickel, chromium, cobalt, and lead, which have been identified as carcinogens by some sources. Metal fume fever and symptoms of lead poisoning are possible in extreme exposures, but due to low concentrations of hazardous components, symptoms are not likely.	NA
Ingestion	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA



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Medical Conditions Aggravated by Exposure				
Respiratory disease				
Carcinogenicity (IARC, NTP)				
	NTP	IARC	ACGIH	OSHA
Chromium	HC	No	No	No
Cobalt	No	PC2B	A3	No
Lead	No	PC2B	No	No
Nickel	AHC	HC1	A1	No
HC=Human carcinogen, AHC=Anticipated human carcinogen, HC1 = Human carcinogen (group1) PC2B= Possible carcinogenic to humans (group 2B), A1= Confirmed human carcinogen, A3= Animal carcinogen.				
Potential Environmental Effects				
Conditions that may increase overexposure potential: The extent of exposure to this product will depend largely on the intensity and duration of product use. Employers who supply this product for use by their employees must determine the conditions under which exposure can result.				

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush eyes with plenty of water.	If irritation develops and persists, seek medical attention.	NA
Skin	In case of contact, wash skin with soap and water.	If irritation develops or persists, seek medical attention.	NA
Inhalation	Remove victim to fresh air. Restore breathing if necessary.	Seek medical attention immediately.	NA
Ingestion	NA	Seek medical attention.	NA
Other	NA	NA	NA
Note to Physicians (Treatment, Testing, and Monitoring)			
NA			

5. Fire and Explosion Data

Flashpoint & Method: °C / °F NA	Flammable (Explosive) Limits in Air LEL: UNKNOWN UEL: UNKNOWN	Autoignition Temperature NA	Other NA
Flame Propagation or Burning NA	Properties Contributing to Fire Intensity NA	Flammability Classification Health- , Flammability- , Reactivity- NA	
Extinguishing Media Use dry powder or sand on molten aluminum. Do not use water or halogen agents.		Extinguishing Media to Avoid NA	
Protection and Procedures for Firefighters Fire fighters should wear full turnout gear and pressure-demand self-contained breathing apparatus (SCBA).			
Unusual Fire and Explosion Hazards Damp aluminum dust may spontaneously heat with liberation of hydrogen to form explosive mixtures with air.			

6. Accidental Release Measures

Containment Techniques NA
Spill/Leak Clean-Up Procedures and Equipment Fine turnings and small chips should be swept or vacuumed. Avoid generation of dust, Scrap metal can be reclaimed for re-use.
Evacuation Procedures NA
Special Instructions NA
Reporting Requirements NA



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7. Handling and Storage

Handling Practices and Warnings

None known.

Storage Practices and Warnings

(°C / °F). None known.

Community right-to-know requirements: SARA 302: Chromium RQ=5000 lbs; Copper, RQ=5000lbs; Lead, RQ= 1 lb; Nickel, = RQ=100lbs; Zinc, RQ=1000 lbs. (See 40 CFR 355).

SARA 313: Annual release reporting requirements for aluminum, chromium, copper, lead, nickel and zinc (see 40 CFR 372.65)

8. Exposure Control/Personal Protection

Ventilation

Not normally required. If exposures exceed established limits (section II) or there is evidence of overexposure, local exhaust ventilation should be used.

Other Engineering Controls

NA

Routes of Entry:

Personal Protective Equipment (PPE) for Normal Use:

PPE for Emergencies:

Eye/Face

Safety glasses or goggles.

NA

Skin

Protective gloves: As required for specific task.

NA

Inhalation

When airborne concentrations exceed TLV or are unknown, use a NIOSH/MSHA approved respirator for particulates or metal fumes in accordance with OSHA respiratory protection requirements (29CFR 1910.134).

NA

General Hygiene Considerations and Work Practices

Eyewash station and safety shower should be available in areas of use. Wash thoroughly after handling product.

Protective Measures During Repair and Maintenance of Contaminated Equipment

NA

Other Protective Measures and Equipment

As required for specific task.

9. Physical and Chemical Characteristics

Appearance

Silvery, gray metal

Odor

None

Normal Physical State:

Liquid Gas

Solid NA (Other)

Boiling Point °C / °F NA

Melting Point °C / 900-1200 °F

Freezing Point °C / °F NA

Specific Gravity or Density (H₂O=1)

2.5-2.9

Solubility in Water

Negligible

pH

NA

Vapor Pressure (mm Hg @ 20°C)

N/A

Vapor Density (AIR= 1)

N/A

Evaporation Rate (Butyl Acetate = 1)

N/A

Other

Volatility: NA



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10. Stability and Reactivity Data

Incompatibility (Materials to Avoid)

Strong acids, strong oxidizers.

Hazardous Products Produced During Decomposition

NA

Hazardous Polymerization?

May Occur May Not Occur

Conditions to Avoid

°C / °F None known.

Stability?

Stable Unstable

Conditions to Avoid

°C / °F heat, generation of dust.

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data

NA

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

NA

13. Disposal Considerations

Regulations

Dispose of via a licensed firm in accordance with federal, state and local regulations (See EPA 40CFR 261).

Properties (Physical/Chemical) Affecting Disposal

NA

14. Transport Information

Regulated for shipping?

Yes No NA

Proper Shipping Name

Essix bur blocks

Packing Group

NA

Do changes in quantity, packaging, or shipment method change product classification?

Yes No NA

Hazard Class

NA

Identification Number

NA

Other

NA

15. Regulatory Information

Federal Regulations

NA

International Regulations

NA

Other

NA

16. Other Information

Supplier Number: 25 / 25

Supplier Release: April 11, 1994

N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.