

Material Safety Data Sheet

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May be used to comply with OSHA's Hazard Communication Standard 29CFR 191. 1200. Standard must be consulted for specific requirements.

DELTA PYROFAX

SECTION 1 -

Manufacturer's Name	Anocoil Corporation	Common Name	DELTA PYROFAX		
Address	P. O. Box 1318	Emergency Telephone no.	860-871-1200		
City, State and ZIP	Rockville, CT 06066	Other Information Calls	860-871-1200		
Signature of Person Responsible for Preparation (Optional)		Date Prepared	12/29/1994	Revision Date	06/02/1997

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY

Hazardous Component(s) (chemical & common name(s))	Aluminum	CAS NO.	7429-90-5
OSHA PEL	10mg/M3	% (optional)	>96.30
ACGIH TLV	10mg/M3		
Other Exposure Limits			
Hazardous Component(s) (chemical & common name(s))	Silicon	CAS NO.	7440-21-3
OSHA PEL	10mg/M3	% (optional)	<.50
ACGIH TLV	10mg/M3		
Other Exposure Limits			
Hazardous Component(s) (chemical & common name(s))	Iron	CAS NO.	1308-37-1
OSHA PEL	10mg/M3	% (optional)	<.70
ACGIH TLV	5mg/M3		
Other Exposure Limits			
Hazardous Component(s) (chemical & common name(s))	Copper	CAS NO.	7440-50-8
OSHA PEL	.1mg/M3	% (optional)	<.10
ACGIH TLV	.2mg/M3		
Other Exposure Limits			
Hazardous Component(s) (chemical & common name(s))	Manganese	CAS NO.	7439-96-5
OSHA PEL	5mg/M3	% (optional)	<1.5
ACGIH TLV	1mg/M3		
Other Exposure Limits			
Hazardous Component(s) (chemical & common name(s))	Magnesium	CAS NO.	1309-48-4
OSHA PEL	15mg/M3	% (optional)	<.30
ACGIH TLV	10mg/M3		
Other Exposure Limits			
Hazardous Component(s) (chemical & common name(s))	Chromium	CAS NO.	7440-47-3
OSHA PEL	1mg/M3	% (optional)	<.10
ACGIH TLV	.5mg/M3		
Other Exposure Limits			
Hazardous Component(s) (chemical & common name(s))	Zinc	CAS NO.	1314-13-2
OSHA PEL	5mg/M3	% (optional)	<.20
ACGIH TLV	10mg/M3		
Other Exposure Limits			
Hazardous Component(s) (chemical & common name(s))	Titanium/Zirconium	CAS NO.	13463-67-7
OSHA PEL	15mg/M3	% (optional)	<.10
ACGIH TLV	10mg/M3		
Other Exposure Limits			
Hazardous Component(s) (chemical & common name(s))	Other	CAS NO.	
OSHA PEL		% (optional)	<.20
ACGIH TLV			
Other Exposure Limits			

Section 2 Comments

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SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	3733	Specific Gravity (H ₂ O=1)	2.7	Vapor Pressure (mm Hg)	1 mm @ 2343 degrees F
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Vapor Density (Air = 1) Solid N/A

Solubility in Water	Aluminum sheet insoluble.	Reactivity in Water	N/A
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Appearance and Odor	Silvery, ductile metal	Melting Point	900-1200 degrees F
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Section 3 Comments

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	F _{N/A} C.	Method Used	Flammable Limits in Air % by Volume	LEL Lower	UEL Upper
				>.04oz/ft	N/D

Auto-Ignition Temperature	N/D	Extinguisher Media	Dry powder or dry clean sand
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Special Fire Fighting Procedures
Aluminum sheet does not present an explosion or fire hazard under normal conditions. Never use water, CCL4 or Halon on molten Aluminum

Unusual Fire and Explosion Hazards
Aluminum powder/dusts <.14m have LEL @ 40-50 mg/liter of air (.04 oz/ft³). Ultra fine dust cloud can be ignited with a .05 joule spark. Never allow moisture to come in contact with molten aluminum.

Section 4 Comments

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability	Unstable [] Conditions
	Stable [X] to avoid

Finely divided aluminum dust can burn or explode. Do not allow molten aluminum to contact water.

Incompatibility (Materials to avoid) **Strong acids, oxidizers, alkalis.**

Hazardous Decomposition Products **Evolution of Hydrogen when contacted by alkalis or acids forms oxides and nitrides when heated above melting point.**

Hazardous Polymerization	May Occur [] Conditions
	Will Not Occur [X] to Avoid

None

Section 5 Comments

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SECTION 6 - HEALTH HAZARDS

1. Acute **None determined**

2. Chronic **None determined**

Signs and Symptoms of Exposure

Medical Conditions Generally

Aggravated by Exposure **Routine handling has not been found to aggravate existing conditions.**

Chemical Listed as Carcinogen or Potential Carcinogen No	National Toxicology Program	Yes [] No [X]	I.A.R.C. Monographs	Yes [] No [X]	OSHA	Yes [] No [X]
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Emergency and First Aid Procedures **Careful handling does not present any danger other than minor cuts, scratches.**

ROUTES 1. Inhalation **N/A**

OF 2. Eyes **N/A**

ENTRY 3. Skin **N/A**

4. Ingestion **N/A**

Section 6 Comments

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

Precautions to be Taken in Handling and Storage **Handle with gloves to avoid cuts**

Other Precautions **Always use adequate ventilation/local exhaust and eye protection when developing plates.**

Steps to be Taken in Case Material is Released or Spilled **Molten aluminum should be dammed with dry sand or salt flux.**

Waste Disposal Methods (Consult federal, state, and local regulations) **Follow appropriate state, local and federal regulations.**

Section 7 Comments

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SECTION 8 - SPECIAL PROTECTION INFORMATION / CONTROL MEASURES

Respiratory Protection

(Specify Type)

None

Ventilation

Local Exhaust

Mechanical (General)

Special

Other

Protective

Gloves

Yes - cut resistant

Eye

Protection

Recommended

Other Protective

Clothing or Equipment

Protective aprons, gloves and goggles are recommended when processing any lithoplate.

Work / Hygienic Practices

Always wash hands after handling

Section 8 Comments

NFPA Rating

Health

Flammability

Reactivity

0

1

0

Special precautions

NONE