

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.

Waterworks HDUV (High-speed Commercial Plates)

SECTION 1 -

Manufacturer's Name	Anocoil Corporation	Common Name	Waterworks HDUV (High-speed Commercial Plates)	
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	10/08/1996	Revision Date 04/30/2010

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)	<.7
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)	<1.50
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			
Hazardous Component(s) (chemical & common name(s))	Benzene diazonium	CAS NO.	Proprietary
OSHA PEL	N/D	% (optional)	<5
ACGIH TLV	N/D		
Other Exposure Limits			

Section 2 Comments

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SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	3733	Specific Gravity (H2O=1)	2.7	Vapor Pressure (mm Hg)	1mm @ 2343 Degrees F
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Vapor Density (Air = 1) Solid N/A

Solubility in Water	Aluminum sheet insoluble - coating is moderately soluble in water	Reactivity in Water	N/A
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Appearance and Odor	Silvery, ductile metal, blue coating.	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	N/A	Flammable Limits in Air % by Volume	LEL Lower	UEL Upper	N/D
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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	Aluminum in sheet form presents no reactive or explosive hazards. Finely divided aluminum dust generated from milling, machining or grinding operations can burn or explode. Do not allow molten aluminum to contact water.
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Incompatibility (Materials to avoid) **Strong acids, oxidizers, alkalis**

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

Hazardous Polymerization	May Occur [] Conditions Will Not Occur [X] to Avoid
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Section 5 Comments

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SECTION 6 - HEALTH HAZARDS

1. Acute **None determined**

2. Chronic **None determined**

Signs and Symptoms of Exposure **Excessive handling without gloves can remove coating, discoloring hands temporarily.**

Medical Conditions Generally Aggravated by Exposure **Routine handling has not been found to aggravate existing conditions. Temporary discoloration of skin may occur.**

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 **Contact with skin - wash thoroughly with water and then cleanse with soap and water.**

ROUTES 1. Inhalation **N/A**

OF 2. Eyes **N/A**

ENTRY 3. Skin **Handling without gloves can remove coating temporarily discoloring skin.**

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- do not touch mouth or eyes while handling coated plates.**

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 until solidified.**

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

Recommended

Mechanical (General)

Special

Other

Protective

Gloves

Recommended

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