# Material Safety Data Sheet

MSDS Number: ALP01 Product Name: Alpolic Revision: (04) 12/18/2012

## Section 1 - Chemical Product and Company Identification

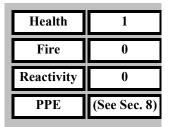
Product Name: Alpolic Chemical Formula NA

**CAS Number:** NA (mixture) **General Use:** Composite Building material

Other Designations NA

Same as Manufacturer Company Name: Mitsubishi Plastics Composites America Distributor: **Street Address:** 401 Volvo Parkway **Street Address:** Same as Manufacturer Town: Chesapeake Town: Same as Manufacturer VA State: State: Same as Manufacturer Zip Code: 23320 Zip Code: Same as Manufacturer

Emergency Contacts: Chemtrec 1-800-424-9300 Other Contacts: 757-382-5750



**Issue Date:** 11/7/2003

# <>>>> EMERGENCY OVERVIEW <>>>>

Metal machining or grinding operations may produce fine particulate or dust. Heating, melting, welding, or brazing, may produce metal fumes and particulates. Inhalation of excessive fume or dust concentrations may result in respiratory tract irritation and/or metal fume fever.

Section 2 - Composition and Information on Ingredients

Ingredient	Aluminum	CAS No.	Proprietary	% in Mixture 20
	OSHA	ACGIH	NIOSH	UNIT OF MEASURE
TWA	NE	10 mg/m3	10 mg/m3	mg/cu.meter
STEL	NE	NE	NE	mg/cu.meter
IDLH	NA	NA	NE	mg/cu.meter

<b>Ingredient</b>	Fluoropolymer Coating	CAS No.	Proprietary	<u>% in Mixture</u> <1
	OSHA	ACGIH	NIOSH	UNIT OF MEASURE
TWA	NE	NE	NE	mg/cu.meter
STEL	NE	NE	NE	mg/cu.meter
IDLH	NA	NA	NE	mg/cu.meter

Iı	<u>ıgredient</u>	Pol	yethylene		CAS No.	9002-88-4	% in Mixture	50-80
			OSHA	AC	GIH	NIOSH	UNIT OF MEASU	RE
	TWA		15* and 5**	10	)*	NE	mg/cu.meter	
	STEL		NE	N	E	NE	mg/cu.meter	
	IDLH		NA	N	Ά	NE	mg/cu.meter	

NA

### **Section 3 - Hazards Identification**

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#### **Primary Entry Routes:**

Absorption

### **Target Organs:**

NA

#### **Inhalation Effects:**

Slight irritation of respiratory tract.

#### **Eve Effects:**

Dust may cause irritation by mechanical abrasion.

#### **Skin Effects:**

Slight irritation possible to sensitive individuals.

#### **Ingestion Effects:**

ND

#### Carcinogenicity:

NΑ

#### Medical Conditions Aggravated by Long-term Exposure:

Accumulation of dust in the respiratory system may cause moderate congestion.

#### **Chronic Effects and/or Recommendations:**

If use generates airborne particles, treat as a NUISANCE PARTICULATE (ACGIH TLV = 10 mg/cu. meter).

### **Section 4 - First Aid Measures**

#### Inhalation:

Protect yourself with appropriate PPE, remove the person to fresh air. Decontaminate and begin rescue breathing if breathing has stopped and CPR if heart action has stopped. Seek prompt medical attention.

#### Eve

DO NOT allow victim to rub or keep eyes tightly shut. Gently lift eyelids and immediately flush eyes with large amounts of water. Remove any contact lenses. Continue to flush for at least 30 minutes, occasionally lifting the upper and lower lids. Seek prompt medical attention.

#### Skin:

Quickly remove contaminated clothing. Immediately wash area with large amounts of water. Seek prompt medical attention for any reddened skin other than from washing.

#### Ingestion:

Never give anything by mouth to an unconscious or convulsing person. Contact a Poison Control Center (PCC). Unless the PCC advises otherwise, have the conscious and alert person drink 1 to 2 glasses of water to dilute. Induce vomiting only after recent ingestions due to the possibility of seizures. Seek prompt medical attention.

#### **Additional First Aid Information:**

NA

## **Section 5 - Fire Fighting Measures**

Flash Point:		Flash Point Method:
NA		NA
Flammabil	ty Classification:	Auto Ignition Temperature:
0 Not Flammable (HMIS	5, NFPA)	ND
LEL:	UEL:	Burning Rate:
NΑ	NA.	NΛ

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### **Extinguishing Media:**

Water spray, dry chemical, foam, carbon dioxide, or halon-type extinguishers.

#### **Unusual Fire / Explosion Hazards:**

May form flammable dust-air mixture.

#### **Hazardous Combustion Products:**

Carbon monoxide, carbon dioxide, nitrogen oxide, and smoke. Under certain conditions some aliphatic aldehydes and carboxylic acids may form.

## **Fire-Fighting Instructions:**

Do not release runoff from fire control methods to sewers or waterways.

#### **Fire-Fighting Equipment:**

Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

#### **Section 6 - Accidental Release Measures**

#### **Containment Method:**

No special requirements.

#### **Reporting Requirements:**

NA

## **Section 7 - Handling and Storage**

### **Handling Precautions:**

NA

#### **Storage Requirements:**

NA

### **Regulatory Requirements:**

Avoid contact with sharp edges.

## **Section 8 - Exposure Controls and Personal Protection**

### Ventilation

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

#### **Respiratory Protection**

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. WARNING! Air purifying respirators do not protect worker in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, peroidic environmental monitoring, maintenance, inspection, cleaning and convenient, sanitary storage areas.

### **Protective Clothing and Equipment**

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splash-proof chemical goggles and face shield when working with liquid, unless full facepiece respiratory protection is worn. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

#### **Safety Stations**

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities avalable in work area.

### **Contaminated Equipment**

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes

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and clean personal protective equipment. Never take home contaminated clothing.

### **Comments**

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or apply cosmetics.

## **Additional Information**

NA

# **Section 9 - Physical and Chemical Properties**

<b>Boiling Point:</b>	Freezing or Melting Point:	Odor Threshold:	Physical State:
NA	NA	ND	Solid
Viscosity:	Refractive Index:	Vapor Density (Air = 1)	Appearance and Odor:
NA	NA	Heavier than air.	Solid Aluminum, polyethylene composite material, various color
% Volatiles:	Surface Tension:	Vapor Pressures:	Water Solubility:
NA	NA	NA	Negligible
Density:	Evaporation Rate:	Formula Weight:	Other Solubilities:
NA	NA	NA	NA
рН:	Specifice Gravity w Water = 1 at 4 deg		Additional Comments:
NA	NA		NA

## Section 10 - Stability and Reactivity

Stability:	Polymerization:	Hazardous Decomposition Products:
Stable under conditions of normal use.	NA	NA
	Chemic	al Incompatibilities:
NA		
	Con	ditions to Avoid:
NA		
	Ot	her Comments:
NA		

## **Section 11 - Toxicological Information**

Checked box	x indicates that related hea	alth effects criteria applies to the over	rall mixture.
Eye Effects   Skin Effects	Acute Oral Effects  Chronic Effects	Acute Inhalation Effects $\Box$ Carcinogenicity $\Box$	Mutagenicity ☐ Teratogenicity ☐
	EXPLANATION	N of HEALTH EFFECTS:	
NA			
	EXPLANATION of T	OXICOLOGICAL CRITERIA:	
Chemical Component:	Aluminum		

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REPRODUCTIVE EFFECTS DATA: 1260 mg/kg oral-mouse TDLo multigenerations

INHALATION ACUTE EXPOSURE: The only reported inhalation effects are for the dust, powder, or fume forms.

SKIN CONTACT ACUTE EXPOSURE: A sliver of aluminum penetrating the skin may form aluminum salts which induce local irritation and possibly secondary infections. Contact with rough or sharp edges may cause cuts or abrasions.

EYE CONTACT ACUTE EXPOSURE: Small metal particles have been observed in the eyes of humans on or near the retinal and are usually nonirritating and well tolerated. The particles gradually changed into a white powder and disappear in 2 or 3 years leaving only a characteristic local necrotic "imprint". Larger particles and splinters may scratch or cut the corneal and lids.

INGESTION ACUTE EXPOSURE: The actual effects may be determined by the form of the aluminum that is ingested. Generally it has a very low acute systemic toxicity due to its poor absorption from the gastrointestinal tract. Massive doses may cause gastrointestinal irritation and may be toxic.

INGESTION CHRONIC EXPOSURE: Large amounts may interfere with intestinal absorption of phosphates leading to ricketts. Certain disease states influence the concentration of aluminum n organs, for example, Alzheimer's disease in which excessive levels may have been found in the brain.

#### ECTOXICITY DATA:

FISH TOXICITY: 293 ug/L 7 hour(s) LETH (Mortality) Golden trout (Oncorhynchus aguabonita) INVERTEBRATE DATA: 2600 ug/L 24 hour(s) LC50 (Mortality) Water flea (Daphnia pulex) PHYTOTXICITY: 2500 ug/L 32 day(s) EC50 (Biomass) Water-milfoil (Myriophyllum spicatum)

FATE AND TRANSPORT:

BIOCONCENTRATION: 36 ug/L 56 hour(s) BCF (Residue) Brook trout (Salvelinus fontinalis) 268 ug/L

OSHA permissible exposure limit (PEL) has been set up for this substance. The PEL is an 8 hour TWA. Limits for air containment: Total dust: 15 mg/m3; Respirable fraction: 5 mg/m3.

<b>Chemical Component:</b>	Fluoropolymer Coating
Data Not Available	
<b>Chemical Component:</b>	Polyethylene
>3 gm/kg oral-rat LD50;	5 gm/kg oral-mouse LDLo

## **Section 12 - Ecological Information**

Checked box indicates that information regarding the criteria applies to the overall mixture.
Ecotoxicity $\square$ Environmental Fate $\square$ Environmental Degradation $\square$ Soil Absorption and Mobility $\square$
EXPLANATION of APPLICABLE ECOLOGICAL CRITERIA:
NA NA

## **Section 13 - Disposal Considerations**

#### Disposal:

Contact your local supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state and local regulations.

## Disposal Regulatory Requirements:

NA

#### **Container Cleaning and Disposal:**

NA

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## **Section 14 - Transport Information**

		DOT Transportation Dat	a (49CFR 172	2.101)	
Shipping Name	_ <del></del>	Label:		Passenger Air and Rail	car:
NA		NA		NA	
Shipping Symbol	ls:	Special Provis	sions:	Cargo Aircraft:	
NA		NA		NA	
Hazard Class:		Exception	s:	Oceangoing Vessel Stow	age:
NA		NA	5.	NA	uger
ID Number:		Non-bulk Pack	aging:	Other:	
NA		NA	aging.	NA	
		<u>-</u>	ingi	NA	
Packing Group NA	:	Bulk Packag	ing:		
	ANATIO	N of APPLICATION T	RANSPORT	TATION CRITERIA:	
NA					
Checked box(es) indicate n the associated chemic		· ·		regulatory requirements and	d/or appear
Chemical Component:	Aluminur	n	CAS	# Proprietary	
40 CFR 261.33		CAA 40 CFR 112		TSCA inventory (US)	<b>~</b>
40 CFR 261 classified		ARA 40 CFR 311 and 312		AICS inventory (Australia)	<b>✓</b>
RCRA Section 3001		ARA 40 CFR 371 and 312 ARA 40 CFR 372.65		EINECS inventory (Europe)	<b>✓</b>
CERCLA RQ established	$\square$ s	ARA 40 CFR 355		DSL inventory (Canada)	<b>✓</b>
40 CFR 302.4		OSHA 1910 1000 Z-1 tables		ECL inventory (Korea) ENCS inventory (Japan)	
CWA 40 CFR 311(b)(4)		SHA 1910 subpart Z		PICCS inventory (Phillipines)	<u></u>
CWA 40 CFR 307(a)				CHINA inventory	
Chemical Component:	Fluoropo	lymer Coating	CAS	# Proprietary	
40 CFR 261.33		CAA 40 CFR 112		TSCA inventory (US)	
40 CFR 261 classified		ARA 40 CFR 311 and 312		AICS inventory (Australia)	
RCRA Section 3001		ARA 40 CFR 311 and 312 ARA 40 CFR 372.65		EINECS inventory (Europe)	
CERCLA RQ established		ARA 40 CFR 355		DSL inventory (Canada)	
40 CFR 302.4		OSHA 1910 1000 Z-1 tables		ECL inventory (Korea)	
CWA 40 CFR 311(b)(4)		OSHA 1910 1000 Z-1 tables OSHA 1910 subpart Z		ENCS inventory (Japan) PICCS inventory (Phillipines)	
CWA 40 CFR 307(a)		www.pur.t.22	_	CHINA inventory	
Chemical Component:	Polyethyl	ene	CAS		
40 CFR 261.33		SA A 40 CED 112			<b>✓</b>
40 CFR 261.33 40 CFR 261 classified		CAA 40 CFR 112		TSCA inventory (US) AICS inventory (Australia)	<b>✓</b>
RCRA Section 3001		ARA 40 CFR 311 and 312		EINECS inventory (Europe)	
		ARA 40 CFR 372.65		DSL inventory (Canada)	<u></u>
CERCLA RQ established	⊔ s	ARA 40 CFR 355		ECL inventory (Korea)	<b>✓</b>
40 CFR 302.4		OSHA 1910 1000 Z-1 tables		ENCS inventory (Japan)	<b>✓</b>
CWA 40 CFR 311(b)(4)		OSHA 1910 subpart Z		PICCS inventory (Phillipines)	
CWA 40 CFR 307(a)				CHINA inventory	

**Section 16 - Other Information** 

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Abbreviations: ACGIH - American Conference of Governmental Industrial Hygienists

IDLH - Immediatly Dangerous to Life and Health NA - Not Applicable to the criteria OR Not Available

ND- Not Determined OR Not Known

NE - None established

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation Recovery Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

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**Additional Comments: NA** 

**Revision Notes: ACB** 



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