

# Safety Data Sheet

AR36IA

SDS No. 16016.4

Date of Preparation: 10/5/05

Revision: 12/22/15

## Section 1 - Chemical Product and Company Identification

**Product:** AR36IA

**Manufacturer:** Marshall Additive Technologies  
Division of the R. J. Marshall Company  
26776 W. 12 Mile Road  
Southfield, MI 48034-7807  
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**Emergency Phone:** (800) 424-9300  
**Date Revised:** 12/22/15  
**Preparer:** Stephanie Nichols

## Section 2 - Hazards Identification

**Classification of the chemical in accordance with paragraph (d) of 1910.1200:** Non-hazardous

<b>HMIS</b>
<b>H</b> 1
<b>F</b> 1
<b>R</b> 0
<b>PPE</b> †
†Sec. 8

**Signal Word:** None

**Pictogram:** None

**Hazard Statements:** None

**Precautionary Statements:** None

**Hazards not otherwise classified:** Processing para-aramid products can release dust and respirable fiber particulate. High concentrations of dust can irritate eyes, nose, and respiratory system and cause coughing and sneezing. Continual rubbing of fiber particulates and dust on the skin can cause a transitory, mild irritation with redness or itching.

## Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	Weight %
Para-aramid polymer	26125-61-1	>80%
Other Synthetic	-----	<2%
Water	7732-18-5	<15%
Finish	-----	<1%

## Section 4 - First Aid Measures

**Description of necessary measures, subdivided according to the different routes of exposure:**

No hazards which require special first aid measures. If symptoms persist, call a physician. If irritation occurs, flush area thoroughly with water.

**Most important symptoms/effects, acute and delayed:** None

**Indication of immediate medical attention and special treatment needed, if necessary:** None

## Section 5 - Fire-Fighting Measures

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to the surrounding fire.

**Unsuitable Extinguishing Media:** None

**Specific hazards arising from the chemical:** Hazardous decomposition products formed under fire conditions. Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6 - Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** None

**Methods and materials for containment and clean up:** Avoid dust formation. Clean up dust and fiber with high efficiency particulate air (HEPA) filtered vacuum equipment or by wet cleaning.

## Section 7 - Handling and Storage

**Precautions for safe handling:** Avoid generating dust during handling. Keep contents moist. Take necessary action to avoid static electricity discharge.

**Conditions for safe storage:** Keep away from direct sunlight. Do not allow to dry. Keep contents moist. Keep tightly closed.

## Section 8 - Exposure Controls / Personal Protection

### Engineering Controls:

**Ventilation:** Use only with adequate ventilation. Avoid dust generation. Recirculated air should be filtered to remove respirable dust. Provide for appropriate exhaust ventilation and dust collection at machinery. Static charges can cause explosions in solvent and dust laden atmospheres. Provide grounding of equipment to prevent static build-up.

### Administrative Controls:

**Respiratory protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Eye protection:** Safety glasses with side-shields.

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Para-aramid polymer*	None	None	None	None
Synthetic fibers**	None	None	1 fiber/cm3	None

\*Industry exposure limit values: 2 RFP/cc 8 & 12 hr TWA respirable fibers; 5 mg/m<sup>3</sup> 8 & 12 hr TWA non-fibrous particulate and/or non-respirable fibers.

\*\*Respirable fibers: length >5 micrometers; aspect ratio  $\geq$  3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.

## Section 9 - Physical and Chemical Properties

**Appearance:** gold fiber

**Odor:** odorless

**Odor Threshold:** not applicable

**pH:** not applicable

**Freezing/Melting Point:** does not melt

**Boiling Point:** does not boil

**Flash Point:** not applicable

**Flash Point Method:** not applicable

**Evaporation Rate:** not applicable

**Flammability:** not applicable

**Upper/lower flammability limits:** not applicable

**Vapor Pressure:** not applicable

**Vapor Density (Air=1):** not applicable

**Relative Density:** 1.44-1.45 @ 20°C

**Water Solubility:** insoluble

**Other Solubilities:** not determined

**partition coefficient: n-octanol/water:** not applicable

**Auto-ignition Temperature:** Not determined.

**Decomposition temperature:** Thermal decomposition >300°C (>572°F)

**Viscosity:** not applicable

## Section 10 - Stability and Reactivity

**Reactivity:** This product is stable at room temperature in closed containers under normal storage and handling conditions.

**Chemical Stability:** Stable under normal or recommended handling and storage conditions.

**Possibility of hazardous reactions:** no data available.

**Conditions to Avoid:** Static electricity.

**Incompatible materials:** Strong acids and strong bases.

**Hazardous Decomposition Products:** Hazardous thermal decomposition products: nitrogen oxides (NO<sub>x</sub>), hydrocarbons, aldehydes, hydrogen cyanide (hydrocyanic acid), carbon monoxide, anhydrous ammonia.

## Section 11- Toxicological Information

**Information on likely routes of exposure:** Skin, eyes, inhalation.

**Symptoms related to the physical, chemical, and toxicological characteristics:**

**Eye:** May cause slight mechanical irritation.

**Skin:** May cause irritation.

**Inhalation:** May cause irritation.

**Ingestion:** None known.

**Delayed and immediate effects and also chronic effects from short- and long-term exposure:** Effects of breathing high concentration of respirable particles may include: Risk of serious damage to the lungs (by inhalation).

**Numerical measures of toxicity:**

Oral LD50 : > 7,500 mg/kg , rat

Skin irritation: No skin irritation, guinea pig

No skin irritation, human

Repeated dose toxicity: Inhalation rat lung effects

Sensitization: Patch test on human volunteers did not demonstrate sensitization properties.

Mutagenicity: Did not cause genetic damage in cultured mammalian cells. Genetic damage in cultured bacterial cells was observed in some laboratory tests but not in others.

**Carcinogenicity:** Not carcinogenic by NTP, IARC, and OSHA.

## Section 12 - Ecological Information

**Eco-toxicity:** not applicable

**Persistence and degradability:** non-biodegradable

**Bio-accumulative potential:** not applicable

**Mobility in soil:** not applicable

**Results of PBT and vPvB assessment:** not applicable

**Other adverse effects:** none

## Section 13 - Disposal Considerations

**Disposal:** Dispose as solid waste in sanitary landfill or incinerate according to Federal, State, and local regulations. Do not flush to surface waters or to sanitary sewer systems.

## Section 14 - Transport Information

**DOT Transportation Data (49 CFR 172.101):** Not classified as dangerous.

**UN Number:** not classified as dangerous goods

**UN proper shipping name:** not classified as dangerous goods

**Transport hazard classes:** None

**Packaging group:** None

**Environmental hazards:** None

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** No hazardous goods.

**Special precautions for user:** None

**Section 15 - Regulatory Information****EPA Regulations:**

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)  
RCRA Hazardous Waste Classification: Not classified  
CERCLA Hazardous Substance (40 CFR 302.4) Not listed  
SARA Toxic Chemical (40 CFR 372.65): Not listed  
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

**OSHA Regulations:**

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

**Proposition 65 (California):** None

**TSCA**

This substance or all of its components are on the Chemical Substances Inventory of the Toxic Substance Control Act (TSCA Inventory [USA]). Please note that this product is not subject to any legal reporting requirements under these acts.

**INTERNATIONAL INVENTORIES:**

China IECSC: Listed  
Japan ENCS: Listed  
Korea ECL: Listed  
New Zealand: Listed  
Philippines PICCS: Listed  
Taiwan NECI: Listed

**Section 16 - Other Information**

**Prepared By:** Stephanie Nichols

**Revision Notes:** 12/22/15

**Product Grades Available from the R. J. Marshall Company** (this list may be incomplete):

AR36IA
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