

Safety Data Sheet

ARAMID 900 Series

SDS No. 16050.1

Date of Preparation: 3/21/16

Revision: 5/27/21

Section 1 - Chemical Product and Company Identification

Product: ARAMID 900 Series

Manufacturer: Marshall Additive Technologies

Division of the R. J. Marshall Company

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Date Revised: 5/27/21

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Section 2 - Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 1910.1200: Hazardous

Carcinogenicity: 1A

Signal Word: Danger



Pictogram:

Hazard Statements: May cause cancer by inhalation

Precautionary Statements:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands thoroughly after handling.

Do not eat, drink, or smoke when using this product.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local regulations.

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.

HMIS

H 1

F 1

R 0

PPE[†]

[†]Sec. 8

Section 3 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | Weight % |
|------------------------|------------|----------|
| Quartz (fine fraction) | 14808-60-7 | 0.1-1.0 |

There are no other hazardous components in this product.

Section 4 - First Aid Measures

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

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, obtain medical attention.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Give 100-200 ml of water to drink. If symptoms develop, obtain medical attention.

Most important symptoms/effects, acute and delayed:

Inhalation: May cause irritation to the respiratory tract.

Skin contact: Repeated and/or prolonged skin contact may cause irritation.

Eye contact: May cause eye irritation.

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: Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe dust.

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. Do not dry sweep dust.

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: Dust make or respirator. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection: Wear chemically resistant protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin protection: Use chemically protective clothing.

| Ingredient | OSHA PEL | | ACGIH TLV | |
|------------------------|-----------------------|------|------------------------------------|------|
| | TWA | STEL | TWA | STEL |
| Quartz (fine fraction) | 0.1 mg/m ³ | None | 0.025 mg/m ³ respirable | None |

Section 9 - Physical and Chemical Properties

Appearance: off-white

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: 2.6

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: Dust formation.

Incompatible materials: Strong acids and strong bases.

Hazardous Decomposition Products: Hazardous thermal decomposition products: nitrogen oxides (NO_x), 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: Repeated and/or prolonged skin contact may cause irritation.

Inhalation: May cause irritation to the respiratory tract.

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:

Acute toxicity: Not classified

Skin irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Class 1

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Carcinogenicity: IARC and NTP has listed quartz as a human carcinogen. Quartz is not listed by OSHA as a carcinogen.

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:

Canada: WHMIS classification: Class D Division 2 Subdivision A-very toxic material causing other toxic effects.
Canada DSL: All components of this material are listed on the DSL or exempt.
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: Updated Section 2 and 15

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

| | |
|-------|-------|
| AR990 | AR991 |
|-------|-------|

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