

# Material Safety Data Sheet (MSDS)



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(MSDS)**

Document No:  
AEP1001

**SECTION 1- Identification**

1.1 Product identifier Trade name: **AdvancedArmor** Product code: - 1.2 Relevant identified uses of the substance or mixture and uses advised as protective coating for aluminum fins . Uses advised against: Any use not specified above. 1.3 Details of the supplier of the safety data sheet Company: AbanEnergy

Telephone: +9821 92002736 ,E- mail (competent person): [O.anamzadeh@aban.energy](mailto:O.anamzadeh@aban.energy)

1.4 Emergency telephone number: <+989109540595>

**SECTION 2 - Hazard Identification**

**Classification of mixture:**

- Flammable liquid, Category 4 (H227: Combustible liquid).
- Skin irritation, Category 2 (H315).
- Hazardous to aquatic life, chronic Cat. 3 (H412).

**Label elements (GHS):**

- **Signal word:** WARNING
- **Hazard statements:**
  - H227 Combustible liquid.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
  - H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements:**
  - P261 Avoid breathing vapors.
  - P280 Wear protective gloves/eye protection.
  - P271 Use only outdoors or in a well-ventilated area.
  - P273 Avoid release to the environment.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes...
  - P403+P235 Store in a well-ventilated place. Keep cool.
- **Pictograms:**





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### SECTION 3 - Composition / Information on Ingredients

This product is a mixture. Exact concentrations and identities are withheld as trade secret; ranges provided meet regulatory requirements.

### SECTION 4 - First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist (dizziness, headache), seek medical attention.
- **Skin contact:** Wash with soap and water. Remove contaminated clothing. Seek medical help if irritation persists.
- **Eye contact:** Rinse cautiously with water for at least 15 min. Seek medical attention.
- **Ingestion:** Do not induce vomiting. Rinse mouth. Get medical help immediately

### SECTION 5 - Firefighting Measures

- **Suitable extinguishing media:** Foam, CO<sub>2</sub>, dry chemical, water spray.
- **Hazards:** Combustible vapors; thermal decomposition can produce CO, CO<sub>2</sub>, NO<sub>x</sub>.
- **Protective equipment:** Firefighters wear SCBA and full gear.

### SECTION 6 - Accidental Release Measures

- Ventilate area, remove ignition sources.
- Wear protective gloves, goggles, organic-vapor respirator if high vapor levels.
- Contain with inert absorbent (sand, vermiculite). Collect in labeled containers for disposal.
- Prevent release to drains/environment.



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### SECTION 7 - Handling and Storage

- Handle in well-ventilated areas. Avoid skin/eye contact.
- Keep container tightly closed. Store in cool, dry, ventilated area away from oxidizers.
- Ground/bond containers when transferring liquid.

### SECTION 8 - Exposure Controls / Personal Protection

- **OELs:** (ACGIH TLV 20 ppm TWA; OSHA PEL 50 ppm). pigments — treat as nuisance dust.
- **Engineering controls:** Local exhaust, spray booths.
- **PPE:**
  - Respiratory protection if above OELs.
  - Safety glasses with side shields.
  - Nitrile gloves, protective clothing

### SECTION 9 - Physical and Chemical Properties

- **Appearance:** Colored viscous liquid paint
- **Odor:** Mild solvent
- **pH:** Not applicable
- **Flash point:** ~ 22 °C
- **Density:** ~ 1.35 g/cm<sup>3</sup>
- **Solubility:** Insoluble in water (resin), partially soluble (solvent)
- **VOC content:** Depends on resin % solids, approx. 150–200 g/L

### SECTION 10 - Stability and Reactivity

- Stable under normal storage.



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- Avoid heat, sparks, open flames.
- Incompatible with strong oxidizers, acids, alkalis.
- Hazardous decomposition: CO, CO<sub>2</sub>, NO<sub>x</sub>, metal oxides.

**SECTION 11 - Toxicological Information**

- Acute inhalation of vapors may cause drowsiness, headache .
- Skin/eye irritation possible .
- Chronic: Prolonged contact may cause dermatitis. No evidence of carcinogenicity from major pigments.

**SECTION 12 - Ecological Information**

- solvent is biodegradable but harmful to aquatic organisms at high levels.
- some solids are Harmful to aquatic life, long-lasting effects.
- Pigments generally inert but persistent in soil/sediment.
- Avoid release to environment.

**SECTION 13 - Disposal Considerations**

- Dispose of paint residues and contaminated absorbents as hazardous waste (organic solvent, heavy metals).
- Do not allow into drains. Incineration or specialized chemical waste facility.

**SECTION 14 - Transport Information**

- **UN number:** UN 1263



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- **Proper shipping name:** Paint
- **Hazard class:** 3 (flammable liquid — depends on flash point)
- **Packing group:** III
- **Marine pollutant:** Yes .

**SECTION 15 - Regulatory Information**

- Mixture subject to chemical regulations (REACH/OSHA/GHS).
- VOC content regulated in coatings (check regional VOC rules).
- Hazard classification per CLP (EC) and OSHA HCS.

**SECTION 16 - Other Information**

- Key H-phrases: H227, H315, H319, H336, H412.
- Prepared Sept 2025 by **AbanEnergy**.
- Disclaimer: Safety data given for guidance only; user must comply with local legislation.