



SAFETY DATA SHEET

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Revision: May 24, 2023

Trade Name: Avialite Type 3

1. Identification

Product Identifier:	Type 2 Plastic Media
Trade Names:	RockRidge Avialite Type 2
Recommended Use:	For use as a blasting media for the removal of coatings from aluminum and composite components without damaging the substrate.
Restrictions on Use:	None
Manufacturer/Supplier:	RockRidge Abrasives 37 John Glenn Dr. Amherst, NY 14228

2. Hazard(s) Identifications

Classifications of the Substance or Mixture: Not Classified For use as a blasting media for the removal of coatings from aluminum and composite components without damaging the substrate.

3. Composition/Information on Ingredients

Compound	Typical Content %	CAS No	EINECS No
Thermoset Urea Amino Polymer	66-70	9003-08-1	N/A
Cellulose	30-33	9004-34-6	232-674-9
Titanium Dioxide (Pigments)	<0.8	13463-67-7	236-675-5
Iron Oxide	<0.01	1309-37-1	215-168-2
Zinc Stearate	<0.01	557-05-1	209-151-9
Barium Sulfate	<0.01	7727-43-7	231-784-
Lankrostat® QAT, Anti-static solution	<0.001	68989-03-7	N/A



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4. First-Aid Measures

General Information:

After Inhalation: Remove to fresh air. Get medical attention if symptoms occur, Monomeric vapours of heated up media may cause dizziness, headaches and mood swings.

After Skin Contact: Substance is not a skin irritant and not a skin sensitiser. Wash with water and soap. Remove contaminated clothing and footwear, Get medical advice if symptoms occur. As with any industrial product, contact with skin can cause irritation leading in some cases to dermatitis and it is wise to take the usual precautionary measures of obtaining medical clearance for employees who have a history of skin disease or allergy. The use of an emollient such as white petroleum jelly (Vaseline) is useful to minimise dryness of the skin if it occurs.

After Eye Contact: Substance is not an eye irritant. Use general measures if eye irritations occur. Do not rub eyes. Immediately wash with plenty of water. Check for and remove any contact lenses. If irritation persists, get medical attention. Monomeric vapours of heated up media may cause eye irritation.

After Swallowing: The material should not be ingested and for this reason the preparation and consumption of food and drink in working areas should not be allowed. Wash mouth out if appropriate. Do not induce vomiting.

Advice to physician: No specific advice. Treat according to symptoms present.

5. Fire-Fighting Measures

Extinguishing Media:

Suitable Extinguishing Agents: CO₂, powder or water mist. Do not use water jets.

Special Hazards Arising from the Substance or Mixture: This product will not ignite unless suspended as dust in sufficient concentration in air, in which case for decomposition and explosion limits refer to section 10.

Advice for Firefighters: Wear self-contained breathing apparatus and protective clothing



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6. Accidental Release Measures

Personal Precautions, Protective Equipment & Emergency Procedures: Ensure adequate ventilation. Avoid breathing dust. Use appropriate personal protective equipment. Observe occupational exposure limits detailed in section 8.

Environmental Precautions: Make sure spills can be contained. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Methods and Materials for Containment and Cleaning Up: Ventilate the area thoroughly. Vacuum or sweep up material and place in a suitable container for re-cycling or disposal. (section 13)

7. Handling and Storage

Precautions for Safe Handling: Inert urea amino polymer is not classified and no protective measures are needed for safe handling. Prevent formation of dust. Use only in well ventilated areas. Wear personal protective clothing. Wash hands and face before breaks and after work.

Conditions for Safe Storage: Keep dry. Product is an inflammable thermoplastic which burns with great heat. High dust concentration could form an explosive mixture with air.

Specific end uses: Abrasive blast cleaning may fracture the product and generate dust. Ventilate work area in vicinity of operator.

8. Exposure Controls / Personal Protection

Engineering Measures: Use in a blast cabinet with a dust collector. If a blast room is used it must have a dust extraction and collection system with a rating which meets current national requirements to keep dust levels below the occupational exposure limits.

Occupational Exposure Limits: General dusts TWA: 10mg/m³ (inhalable), 4mg/m (respirable).

Individual Protection Measures:

- (a) Respiratory & Eye Protection: Blasting operatives should wear a CE marked or HSE approved blasting helmet. Ancillary workers should use a P2 dust respirator and safety goggles
- (b) Skin & Hand Protection: Operatives should always wear appropriate gauntlets. Operatives should wear heavy-duty coveralls or a purpose designed blasters' suit.
- (c) Ear Protection: Wear hearing protection when blasting, and in other applications abide by noise regulations dictated by employer/workplace rules and legislation.



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9. Physical and Chemical Properties

Appearance:	Granulate
Odor:	Slight fishy smell
Color:	Multi-colored granules
pH:	5.5-7 (at 250g/l H ₂ O at 20°C)
Ignition Temperature:	475 °C
Explosive Limits:	60g/m ³
Relative Density:	1.50g/cm ³
Bulk Density:	0.70g/m ³
Solubility:	Not Soluble
Decomposition temperature:	450°C
Hardness:	3 - 3.5 Moh

10. Stability and Reactivity

Thermal Decomposition / Conditions to be Avoided:

Possibility of Hazardous Reactions:	Product is a self-extinguishing thermosetting plastic ignitable by flame or temperature above decomposition point.
Conditions to avoid:	Excessive thermal exposure to decomposition points. Exposure to very strong acids, bases and oxidising agents
Incompatible Materials:	As 10.4 above
Reactivity:	Not applicable. See section 9.
Chemical Stability:	Stable under normal conditions.
Hazardous Decomposition:	At temperatures above decomposition point smoke containing CO, CO ₂ , NO _x . CH ₂ O and NH ₃ can be given off.

11. Toxicological Information

Information on Toxicological Effects:

Inhalation: Can cause irritation to respiratory tract
Ingestion: Extremely low order of toxicity
Skin Contact: Powders can be irritants for particularly sensitive subjects.
Eye Contact: Powders can cause eye irritations.

Numerical Measures of Toxicity: LD₅₀ oral rat > 2000mg/kg on uncured moulding powder, no acute oral toxicity. Final product is inert moulded product with lower toxicity.

Other Data: No hazardous product as specified in Directive 67/548/CE (CLP) and OSHA (Federal Hazard Communication Standard). According to our present knowledge, no adverse health effects are expected when the product is handled and used with due care and attention, in the intended field of application.



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12. Ecological Information

Eco Toxicity: LC₅₀ 96h fish > 4500 kg/l. Low toxicity for marine organisms. This data pertains to uncured moulding powder; toxicity for cured product is expected to be even lower. The final product is manufactured from cured inert mouldings.

Persistence and Degradability: The material has a low biodegradability.

Bio Accumulative Potential: No bio-accumulation is to be expected.

Other adverse effects: Water hazard class 1 (D) (Self Classification); slightly dangerous for water. Do not allow undiluted or large amounts into the ground water, surface water or drains. This data pertains to uncured moulding powder; product is manufactured from inert cured mouldings. Good practice would also recommend the above criteria.

Test Results: RockRidge Abrasives has not conducted any environmental studies on these products, and no information has been found in a search of literature for moulded product. The above toxicological and ecological data relates to uncured moulding powders. These products do not contain any substances that are classified under EC legislation for environmental effects.

13. Disposal Considerations

The media must be disposed of in accordance with national legislation (See Section 16) and local regulations. The material as supplied is classed as a non-hazardous inert solid waste. Spent abrasive used as a blasting medium must be disposed of under classification 12 01 16 (waste blasting material containing dangerous substances) or 12 01 17 (waste blasting material other than those mentioned in 12 01 16). The waste producer must determine if hazardous substances in the coating being removed are likely to cause the waste to be hazardous.

14. Transport Information

Note: Not classified as a dangerous according to transport regulations.

IMDG/IMO:	No Classification Assigned
RID:	No Classification Assigned
ADR:	No Classification Assigned
ICAO:	No Classification Assigned
IATA:	No Classification Assigned



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15. Regulatory Information

Safety, health, and environmental regulations/legislation specific for the substance or mixture

United States Federal Regulations

EPA - TSCA: Not Applicable

EPA - CARCLA Reportable Quantity: Not Applicable

EPA - SARA Title III: Not Applicable

OSHA: The product is not hazardous according to Directive 67/548/CE and 199/45/CE, OSHA's Federal Hazard.

ACGIH: Not Applicable

Labelling Requirement: Not subject to labelling in accordance with current regulations in force.

16. Other Information

REACH Regulation: The products detailed herein are exempt for registration under REACH criteria (European Regulation 1907/2006) on the basis they are (i) recycled materials and (ii) polymers.

The information contained in this document is, to the best of our knowledge, accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage, however arising, which may result directly or indirectly from the use of such information.

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