

Safety Data Sheet

Avialite Type 5 Plastic Media

Trade Name: Avialite Type 5 'Mil' Spec
Grades: 12/16, 16/20, 12/20, 20/30, 30/40, 20/40, 40/60, 60/80
Original Issue Date: May 2011 (by Mac'Ants)
This Issue: September 2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier: Type 5 Plastic Media – 'Mil' Spec
Product Name: AvialiteType 5
Product Description: Acrylic Plastic Blasting Media

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use: For use as a blasting media for the removal of coatings from aerospace structures and components, compliant with the requirements of Mil-P-85891A

No hazardous product as specified under Regulation CLP EC 1272/2008 and exempt under REACH Regulation 1907/2006(Recycled material and polymer category exemption)

1.3 Details of supplier of the safety data sheet

Hodge Clemco Ltd, Orgreave Drive, Sheffield S13 9NR, U.K.

Email address of person: sales@hodgeclemco.co.uk

Emergency telephone number of the supplier
Telephone number: +44(0)114 254 8811
Hours of operation: Mon – Fri 08.30 – 1700

SECTION 2: Hazards Identification

2.1 Classification of substance or mixture

Not classified. Inert acrylic polymer does not meet the criteria for classification in accordance with the REACH regulations 1907/2006. No special conditions are therefore needed. The material is not considered hazardous in normal use but the following potential hazards should be recognised:

- a) Dust – inhalation (section 8)
- b) Skin irritation in susceptible individual
- c) Noxious fumes evolved during fire (section 5)

SECTION 3: Composition/information on ingredients

Inert acrylic polymer

Compound	Typical Content %	CAS No	EINECS No
Poly Methyl Methacrylate Polymer	99.4	9011-14-7	N/A
Titanium Dioxide (Pigments)	<0.8	13463-67-7	236-675-5
Lankrostat® QAT, Anti-static solution	<0.001	68989-03-7	

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

- Inhalation:* Remove to fresh air. Get medical attention if symptoms occur. Monomeric vapours of heated up media may cause dizziness, headaches and mood swings.
- Skin:* 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.
- Eye:* 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.
- Ingestion:* No danger known, wash mouth out if appropriate. Do not induce vomiting. Give water to drink.
- Advice to physician:* No specific advice. Treat according to symptoms present.

4.2 Most important symptoms and effects, both acute and delayed.

The product may cause temporary mechanical irritation to the eyes, nose, throat and lungs.

4.3 Indication of any immediate medical attention and special treatment needed.

Notes for the doctor. Treat symptomatically.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

CO², powder or water mist. **Do not use water jets.**

5.2 Special hazards arising from the substance or mixture

Smoke, CO², CO, monomer vapours

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus and protective clothing

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid breathing dust. Use appropriate personal protective equipment.

6.2 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.

6.3 Methods and material for containment and clean-up

Ventilate the area thoroughly. Vacuum or sweep up material and place in a suitable container for re-cycling or disposal.

6.4 References to other sections

Section 1 for emergency contact information
Section 8 for information on personal protective equipment
Section 13 for Waste Disposal

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Inert acrylic 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.

7.2 Conditions for safe storage including any incompatibilities

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

7.3 Specific end uses

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

SECTION 8: Exposure Controls/Personal Protection

8.1 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.

8.2 Occupational Exposure Limits

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

8.3 Respiratory and 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

8.4 Skin and Hand Protection

Operatives should always wear appropriate gauntlets.
Operatives should wear heavy-duty coveralls or a purpose designed blasters' suit.

8.5 Ear Protection

Wear hearing protection when blasting, and in other applications abide by noise regulations dictated by employer/workplace rules and legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<i>Appearance:</i>	Granulate
<i>Colour:</i>	White/grey or multi-coloured granules
<i>Odour:</i>	slight methyl-methacrylate smell
<i>pH:</i>	4 – 8 (at 250g/l H ₂ O at 20°C)
<i>Melting point:</i>	150°C
<i>Ignition temperature:</i>	390°C (melting point: 135°)
<i>Explosive limits:</i>	lower limit – 45g/m ³ upper limit ----
<i>Relative Density (ref water at 20°C)</i>	approx.. 1.2g/cm ³
<i>Bulk Density:</i>	580 – 650 kg/m ³
<i>Solubility:</i>	Not soluble
<i>Decomposition temperature:</i>	370°C

Hardness:

3.5 Moh

9.2 Other information

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not applicable. See Section 9.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

No hazardous reactions known

10.4 Conditions to avoid

Excessive thermal exposure to decomposition points. Exposure to very strong acids, bases and oxidising agents

10.5 Incompatible materials

Very strong acids

10.6 Hazardous decomposition products

At temperatures above decomposition point smoke containing CO, CO² and methacrylate monomers can be given off.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

No damage to health is known after many years of working with the product.

Maximum exposure limits for monomers: 5 – 10 ppm (1987)

Smell limit of decomposition products: 1 – 50 ppm

Explosion limits of decomposition Products: 2.1 – 12.5 vol.%

SECTION 12 Ecological information

12.1 Eco-toxicity

None

12.2 Persistence and degradability

The material is inert and very slowly bio-degradable.

12.3 Bio-accumulative potential

Not applicable

12.4 Other adverse effects

None

Test Results: Hodge Clemco Ltd 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.

SECTION 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.

SECTION 14: Transport information

14.1 Land Transport

Not classified according to Transport Regulations for Hazardous/Dangerous goods

14.2 Marine Transport (IMO/IMDG)

Not classified according to Transport Regulations for Hazardous/Dangerous goods

14.3 Air Transport (IATA)

Not classified according to Transport Regulations for Hazardous/Dangerous goods

SECTION 15: Regulatory Information

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

The product is not hazardous according to Regulation CLP EC 1272/2008 and 199/45/CE, OSHA's Federal Hazard.

15.2 Labelling Requirement

Not subject to labelling in accordance with current regulations in force.

SECTION 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,

Disclaimer: 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.