



Plastic Medias

MATERIAL SAFETY DATA SHEET

TYPE: This information applies to Plastic Media of the **GELBlast** variant

1. Identification of the Substances/Preparation & Company

Preparation: The products this data pertain to is as above, predominantly relating to ; Plastic Stripping (Blast) Media : **GELBlast**

Company: Mac'Ants Group
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Dinnington
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2. Composition/Information on Ingredients

Chemical Description

Product Ref	Chemical Desc
GEL	Cross Linked Thermoset Amino Polymer

Hazardous Components: The hazardous components are not present in sufficient concentration for the product to require classification under EC Directives.

3. Hazard Identification.

Human Health Effects: The material is not considered hazardous in normal use but the following potential hazards should be recognised;

- (a) Dust - Inhalation. (See below)
- (b) Skin irritation in susceptible individuals.
- (c) Noxious fumes evolved during fire.
- (d) Risk of dust explosion.

Environmental Effects: On the basis of information available, these products are not expected to produce any significant adverse environmental effects when recommended use instructions are followed.

4. First Aid Measures

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Skin Contact: Wash with plenty of water or soap and water. If irritation persists or any sign of tissue damage is apparent, obtain medical advice immediately. As with any industrial product, contact with skin can cause irritation leading in some cases to dermatitis (Reference 7.1) 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. Skin contact should therefore be avoided as much as emollient such as white petroleum jelly (Vaseline) is useful to minimise dryness of the skin.

Eye Contact: Irrigate with copious quantities of water for at least ten minutes and obtain medical advice if irritation persists or if there is any tissue damage.

Inhalation: In the event of exposure to levels above those stated above, evacuate individuals concerned to a dust free environment, preferably into fresh air - if respiratory difficulties are encountered seek medical advice immediately. We recommend the use of approved dust masks or where abrasive blasting operations are conducted then appropriate extraction plant should be utilised or approved breathing apparatus.

Ingestion: 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. Rinse mouth with water and obtain medical advice immediately where accidentally ingested.

5. **Fire Fighting Measures**

Extinguishing Media: Foam or Dry Chemical.

Exposure Hazards: This product will not ignite unless suspended as dust in sufficient concentration in air. In which case for decomposition refer to section 10.

Protective Equipment: Fire fighters & others exposed, wear self-contained breathing apparatus and be aware of other combustible substances involved in any fire.

6. **Accidental Release Measures**

Personal Precautions: Avoid dust inhalation, observe occupational exposure limits detailed in section 8.

Environmental Precautions: Do not allow to enter drains & water courses.

Methods of Cleaning Up: Vacuum or sweep up, for disposal see section 13.

7. **Handling & Storage**

Handling: Handle in normal manner and be mindful of manual handling methods (weights), keep dust formation to a minimum.

Storage: Store in closed bags / containers in dry well ventilated areas.

8. **Exposure Controls/Personal Protection**

Engineering Measure: In a blast cabinet with dust collectors or a closed circuit blast cleaning system are preferred methods of use. If a blast room is used it must have a dust extraction system to keep dust levels below the occupational exposure limits.

For use in refractory linings, slip resistant products, bonded & coated abrasives, ceramic materials & other applications where product is added, poured or applied the occupational exposure limits for the given product must be adhered to.

Occupational Exposure Limits:

All dusts have been assigned exposure limits. The following information has been taken from Guidance Note E.H.40/97 from the Health and Safety Executive (Occupational Exposure Limits 1997 table 2, paragraph 29-31)

Long term exposure limits (8 hours T.W.A. Reference Period)

Total Inhalable Dust	-	10 mg.m ⁻³
Respirable Dust	-	4 mg.m ⁻³

Short term exposure limits – Not Applicable

Respiratory & Eye Protection: In blasting environments if a blast room is used , an air fed blast helmet with built in visor to EN146 must be used. For applied, poured and added applications wear approved dust mask and eye protection.

Skin & Hand Protection: Prolonged contact with the skin should be avoided and protective clothing such as overalls and PVC or cotton-chrome gloves should always be available. Face masks should be worn when dust is likely to be created.

Ear Protection: Wear hearing protection when blasting and in other applications abide by noise regulations dictated by employer.

9. **Physical / Chemical Properties**

Product Ref	Appearance	Odour	Decomposition Point	Insoluble in
GEL	Multi Colour Granules or off white powders	No odour	>246 °C	Water

10. **Stability & Reactivity**

Conditions to avoid: Excessive thermal exposure to decomposition points. Exposure to strong acids, bases and oxidising agents

Hazardous Decomposition: Product is a combustible thermosetting plastic ignitable by flame or temperatures above decomposition point can cause ammonia to be released.

Products: ammonia, organic amines, hydrogen cyanide, oxides of nitrogen and oxides of carbon..

11. **Toxicological Information**

Laboratory Data: These materials have not been tested for toxicity, they are not classified under EC Directives.

Human Data: There is no human data available.

12. **Ecological Information**

Assessment: Handled correctly these products pose no serious environmental hazard.

Test Results: Mac'Ants Group have not conducted any environmental studies on these products, and no information has been found in a search of literature. These products do not contain any substances that are classified under EC legislation for environmental effects.

13. **Disposal Considerations**

13.1 In accordance with the Environmental Protection Act (Duty of Care) Regulations 1991. In use as a blast media the product is likely to become mixed with the stripped coating and or some substrate. These need to be taken into account during disposal. Similarly the inclusion of these products in applied, poured and bound products/applications the binding materials / materials worn against them must be borne in mind and their disposal implications taken into consideration.

13.2 This material has an inherent biodegradable property when exposed to microbial activity in soil and in aerobic/anaerobic environments. This process has been evaluated according to OECD301 criteria. However if used at a stripping media the effect of removed coatings / paint etc must be referenced as above in 13.1

14 **Transport Information**

Not classified according to Transport Regulations for Hazardous Goods.

15 **Regulatory Information**

These products are not classified as hazardous under EC Directives.

16 **Other Information**

Use: These products are used as blast medias, slip resistant materials and cleaning product additives. If they are used for any other purpose, the advice of Mac'Ants Group should be sought regarding any additional hazards that may arise.

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