

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

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

1.1. Product identifier

Product name: Guyblast
Tradename: Thermoset Urea Amino Plastic Media.
UFI: Not Known

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

1.2.1. Relevant identified uses

Main use category Blast cleaning abrasive for industrial use.
Blasting media for the removal of coatings from Aluminium and composite components without damaging the substrate.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier: Guyson International Ltd.
Snaygill Industrial Estate,
Skipton, North Yorkshire.
BD23 2QR
Tel: +44 (0)1756 799911
E-mail: info@guyson.co.uk

1.4. Emergency telephone number

Emergency contact number: Tel: +44 (0)1756 799911

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified.
No special conditions are therefore needed.

Adverse physicochemical, human health and environmental effects Risk management measures due to the potential occurrence of hazardous dusts during use as an abrasive may be needed.

Full text of H- and EUH-statements:

None hazardous product as specified under Directive 67/548/CE and exempt under REACH Regulation 1907/2006(Recycled material and polymer category exemption)

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

The material is not considered hazardous in normal use but the following potential hazards should be recognised.

Dust – inhalation
Skin irritation in susceptible individuals
Noxious fumes may evolve during fire

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]	None
Hazard pictograms (CLP)	No additional information available
Signal word (CLP)	No additional information available
Hazard statements (CLP)	No additional information available
Precautionary statements (CLP)	No additional information available
EUH-statements	No additional information available

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Thermoset Urea Amino Plastic	There are no CAS or EC numbers for fused alumina in its entirety. Numbers for the constituent parts/compounds are shown below.
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3.2. Mixtures

Compound	Typical Content %	CAS No	EINECS No
Thermoset Urea Amino Polymer	66-70	9011-05-6	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	<0.002	68989-03-7	N/A

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

First-aid measures 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.

First-aid measures 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.

First-aid measures 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.

First-aid measures after ingestion

No danger known, wash mouth out if appropriate. Do not induce vomiting. Give water to drink.

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

The product may cause temporary mechanical irritation.

Eyes, Nose, Throat and Lungs.

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

Notes for the doctor.

No specific advice. Treat according to symptoms present.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

CO₂, powder or water mist.

Unsuitable extinguishing media

Do not use water jets.

5.2. Special hazards arising from the substance or mixture

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Unusual fire & explosive hazards

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.

5.3. Advice for firefighters

Firefighting instructions :

Wear self-contained breathing apparatus.

Protection during firefighting :

Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. Non-emergency personnel

Operators & staff

Ensure adequate ventilation. Avoid breathing dust. Use appropriate personal protective equipment. Observe occupational exposure limits detailed in section 8.

6.1.2. For emergency responders

Fire Marshall

Ensure adequate ventilation. Avoid breathing dust.

Protective equipment :

PPE & RPE

Observe occupational exposure limits detailed in section 8.

Emergency procedures :

Emergency evacuation procedure as appropriate to level of hazard.

6.2. Environmental precautions

Spill

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 cleaning up

Methods for cleaning up

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

6.4. Reference to other sections

Section1

Emergency contact information.

Section 8

Personal protective equipment.

Section 13

Waste Disposal

SECTION 7: Handling and storage

7.1. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep dry.

Product is flammable thermoplastic which burns with great heat.

High dust concentration could form an explosive mixture with air.

Incompatible products

No additional information available

Incompatible materials

No additional information available

7.3. Specific end use(s)

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. Control parameters

8.1.1 National occupational exposure limit values

All dusts have been assigned exposure limits. The following information has been taken from Guidance Note EH40/2005 from the Health and Safety Executive (Occupational Exposure Limits 2005).

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

Ingredients	CONTENT (%)	CAS NO.	EINECS NO.	Inhalable	Respirable
Thermoset Urea Amino Polymer	66-70	9011-05-6	N/A	10 mg/m ³	4 mg/m ³
Cellulose	30-33 232-	9004-34-6	674-9	10 mg/m ³	4 mg/m ³
Titanium Dioxide TiO ₂	<0.80	13463-67-7	236-675-5	10 mg/m ³	4 mg/m ³
Iron Oxide Fe ₂ O ₃	0.20	1309-37-1	215-168-2	-	5 mg/m ³
Zinc Distearate	<0.01	557-05-1	209-151-9	10 mg/m ³	4 mg/m ³
Barium Sulfate	<0.01	7727-43-7	231-784-	10 mg/m ³	4 mg/m ³
Lankrostat® QAT, Anti-static solution	<0.002	68989-03-7	N/A		

8.1.2. Recommended monitoring procedures

HSE - G409 Air sampling

8.1.3. Air contaminants formed

Dust

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Dust extraction:



Preferred methods of use are either in a blast cabinet with a dust collector or in a closed-circuit blasting system.

If a blast room is used it must have a dust extraction system to keep dust levels below the occupational exposure limits.

8.2.2. Personal protection equipment

Blast Cabinet

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

General body :



With normal use body protection by half or full-body coverall and safety boots are required.

Inhalation:



Blast cabinet operation - no personal respiratory protection is necessary as all dust should be retained inside the system.

Calculate & observe dust clearance times of the blast chamber before opening any door.

Eye:



A breathing mask is to be worn when handling dust or cleaning out the system. (FFP2 or FFP3)

Safety glasses or tight-fitting protective goggles. EN 166

Skin:



Appropriate blast gauntlets to protect against abrasion.

Blast Room

General body :



Blasting operatives should wear CE marked approved PPE :

Blasting helmet.

Blasters' suit.

Blast gauntlets.

Inhalation:



Calculate & observe dust clearance times of the blast chamber before opening any door or removing PPE / RPE.

A breathing mask is to be worn when handling dust or cleaning out the system. (FFP2 or FFP3)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Granulate

Colour

White / Grey or Multi-coloured

Odour

None

Odour threshold

None

Melting point

450°C

Freezing point

Not Known

Boiling point

Not Known

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

Flammability	Flammable
Lower explosion limit	60g/m ³
Upper explosion limit	60g/m ³
Flash point	475°C
Auto-ignition temperature	Not determined
Decomposition temperature	450°C
pH	4 – 8 (at 250g/l H ₂ O at 20°C)
Kinematic viscosity	Not Known
Solubility	Not Soluble
Partition coefficient n-octanol/water (log value)	Not Known
Vapour pressure	Not Known
Density and/or relative density	Bulk 0.70g/m ³ - Relative 1.50g/cm ³
Relative vapour density	Not Known
Particle characteristics	Solid
Other information	
Hardness	3.0 - 3.5 Moh

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Product is a self-extinguishing thermosetting plastic.	Ignitable by flame or temperature above decomposition point.
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9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.	None reactive
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10.2. Chemical stability

Stable	Under normal conditions
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10.3. Possibility of hazardous reactions.

Product is a self-extinguishing thermosetting plastic.	Ignitable by flame or temperature above decomposition point.
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10.4. Conditions to avoid.

Excessive thermal exposure to decomposition point.	450°C
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10.5. Incompatible materials.

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

Incompatible with

Very strong acids, bases and oxidising agents.

10.6. Hazardous decomposition product

At temperatures above decomposition point.

Smoke containing CO, CO₂, NO_x. CH₂O and NH₃ can be given off.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)

Extremely low order of toxicity

Acute toxicity (dermal)

Powders can be irritants for particularly sensitive subjects.

Acute toxicity (inhalation)

Can cause irritation to respiratory tract

List

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Zinc Stearate	<0.01	557-05-1	209-151-9
Barium Sulfate	<0.01	7727-43-7	231-784-
Lankrostat® QAT, Anti-static solution	<0.002	68989-03-7	N/A

11.2. Information on other hazards

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.

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

Hazardous to the aquatic environment, short-term.	(acute)	LC50 96h fish>4500kg/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.
Hazardous to the aquatic environment, long-term.	(chronic)	

List

12.2. Persistence and degradability

Biodegradability. Low

12.3. Bioaccumulative potential

bio-accumulation None expected

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Environmental Testing: Has not been conducted 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

13.1. Waste treatment methods

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

Product/Packaging disposal
recommendations

Recycle the product & packaging when possible.

Ecology - waste materials

The abrasive must be disposed of in accordance with national legislation 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

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

No additional information available

14.2. UN proper shipping name

No additional information available

14.3. Transport hazard class(es)

Not Applicable

14.4. Packing group

No additional information available

14.5. Environmental hazards

Not Applicable

14.6. Special precautions for user

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

Overland transport		ADR
Classification code		
Special provisions		
Limited quantities		
Excepted quantities		
Packing instructions		
Special packing provisions		
Mixed packing provisions		Not classified according to Transport Regulations for Hazardous/Dangerous Goods
Transport category		
Special provisions for carriage - Packages		
Special provisions for carriage - Loading, unloading and handling		
Special provisions for carriage - Operation		
Tunnel restriction code		
Transport by sea		IMDG
Special provisions		
Packing instructions		
Special packing provisions		
EmS-No.	Fire	Not classified according to Transport Regulations for Hazardous/Dangerous Goods
EmS-No.	Spillage	
S-U Stowage category		
Stowage and handling		
Segregation		
Air transport		IATA
PCA Excepted quantities		
PCA Limited quantities		
PCA limited quantity max net quantity		
PCA packing instructions		Not classified according to Transport Regulations for Hazardous/Dangerous Goods
PCA max net quantity		
CAO packing instructions		
CAO max net quantity		
Special provisions		
ERG code		
Inland waterway		ADN
transport Classification code		
Special provisions		
Limited quantities		Not classified according to Transport Regulations for Hazardous/Dangerous Goods
Excepted quantities		
Equipment required		
Ventilation		
Number of blue cones/lights		
Rail transport		RID
Classification code		

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

Special provisions	
Limited quantities	
Excepted quantities	
Packing instructions	
Special packing provisions	
Mixed packing provisions	Not classified according to Transport Regulations for Hazardous/Dangerous Goods
Transport category	
Special provisions for carriage – Packages	
Special provisions for carriage - Loading, unloading and handling	
Colis express (express parcels)	
Hazard identification number	

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

None hazardous	The product is not hazardous according to Directive 67/548/CE and 199/45/CE, OSHA's Federal Hazard.
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15.1.1. EU-Regulations

No additional information available

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

labelling	Not subject to labelling in accordance with current regulations in force.
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SECTION 16: Other information

Data sources	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,
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Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

Other information

No additional information available

Disclaimer

It remains the users own responsibility to ensure that the information contained is appropriate for the use of this product.

The information contained herein is to the best of our knowledge accurate, however, as 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 results directly or indirectly from the use of such information.