



Visit: The Pebble Mill, Unit 2, South Bradford Trading Estate, Brighouse Road, Bradford, BD12 0NQ
tel: 01274 699 233 **email:** enquiries@thepebblemill.co.uk **Jump online:** www.thepebblemill.co.uk

SAFETY DATA SHEET STONE BINDER-AL (PU4844/60 PART A UNPIGMENTED)

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME The Pebble Mill STONE BINDER-AL (PU4844/60 PART A UNPIGMENTED)
SUPPLIER The Pebble Mill,
 Unit 2,
 South Bradford Trading Estate,
 Brighouse Road,
 Bradford, BD12 0NQ

 t: 01274 699 233
 e: enquiries@thepebblemill.co.uk

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

CLASSIFICATION (1999/45) Not classified.

3 COMPOSITION/INFORMATION ON INGREDIENTS

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT

STONE BINDER-AL (PU4844/60 PART A UNPIGMENTED)



ENGINEERING MEASURES

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

If risk of splashing, wear safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOUR	Colourless.

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION

INHALATION

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

Liquid may irritate skin.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
	No transport warning sign required.
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No.

REVISION DATE 04/07/2012

STONE BINDER-AL (PU4844/60 PART A UNPIGMENTED)

15 REGULATORY INFORMATION

RISK PHRASES

NC

Not classified.

SAFETY PHRASES

P13

Safety data sheet available for professional user on request.

STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION DATE

04/07/2012

RISK PHRASES IN FULL

NC Not classified.

STONE BINDER-AL (PU4844 UNPIGMENTED ALIPHATIC STONE BINDER PART B)

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
HEXAMETHYLENE DIISOCYANATE OLIGOMERS	OEL		0.02 mg/m ³		0.07 mg/m ³	as NCO
HEXAMETHYLENE-DI-ISOCYANATE	OEL		0.02 mg/m ³		0.07 mg/m ³	Sen, as NCO

OEL = Occupational Exposure Limit.

Sen = Capable of causing occupational asthma.

8.2. Exposure controls

Respiratory equipment

If product is applied by spraying, wear self-contained breathing apparatus. If ventilation is insufficient, suitable respiratory protection must be provided. Personnel with a history of asthma-type conditions, bronchitis or skin sensitisation conditions should not work with this product

Hand protection

Use protective gloves made of: Butyl rubber. Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL). Contaminated clothing and shoes must be discarded. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear goggles/face shield.

Skin protection

Wear suitable protective clothing as protection against splashing or contamination.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless.
Odour	No characteristic odour.
Solubility	Immiscible at 15°C
Initial boiling point and boiling range (°C)	Not applicable, Decomposition
Melting point (°C)	ca. -51°C
Relative density	ca. 1, 17g/cm ³ @ 20°C DIN 53217
Vapour density (air=1)	
Not determined.	
Vapour pressure	< 0, 0001 hPa @ 20°C (Vapour pressure of Hexamethylene-di-isocyanate: ca 0, 007 hPa @ 20°C)
Evaporation rate	
Not determined.	
pH-Value, Conc. Solution	
Not applicable.	
Viscosity	ca. 3.000 mPa.s @ 23°C DIN EN ISO 3219/A.3
Decomposition temperature (°C)	ca. 250°C
Odour Threshold, Lower	
Not determined.	
Odour Threshold, Upper	
Not determined.	
Flash point (°C)	ca. 228°C DIN EN 22719
Auto Ignition Temperature (°C)	
Not applicable.	
Flammability Limit - Lower(%)	
Not applicable.	
Flammability Limit - Upper(%)	
Not applicable.	
Partition Coefficient (N-Octanol/Water)	log Pow@ ca. 9, 81 (value calculated)
Explosive properties	
Not determined.	
Oxidising properties	
Not determined.	

STONE BINDER-AL (PU4844 UNPIGMENTED ALIPHATIC STONE BINDER PART B)

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Exothermic reaction with: Amines. Alcohol The product reacts slowly with water resulting in the evolution of carbon dioxide.

10.2. Chemical stability

Avoid contact with: Amines. Alcohol Water

10.3. Possibility of hazardous reactions

Exothermic reaction with: Amines. Alcohol The product reacts slowly with water resulting in the evolution of carbon dioxide. In closed containers, pressure build up can result in distortion, blowing and in extreme cases, bursting of the container.

10.4. Conditions to avoid

Avoid contact with: Amines. Alcohol Water

10.5. Incompatible materials

Materials To Avoid

Amines. Alcohol Water

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2.500 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

Acute Toxicity (Inhalation LC50)

390 mg/l (dust/mist) Rat 4 hours

Respiratory or skin sensitisation:

Respiratory sensitisation

Not applicable.

Guinea Pig

Skin sensitisation

Guinea pig maximization test (GPMT): Guinea Pig

Sensitising.

Carcinogenicity:

Carcinogenicity

Not determined.

Reproductive Toxicity:

Reproductive Toxicity - Fertility

Not applicable.

Aspiration hazard:

Viscosity

Based on available data the classification criteria are not met.

STONE BINDER-AL (PU4844 UNPIGMENTED ALIPHATIC STONE BINDER PART B)

General information

Over-exposure, especially when spraying coatings containing isocyanate without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose, throat and respiratory tracts. Delayed appearance of the complaints and development of hypersensitivity (difficulty breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from those effects even at low isocyanate concentrations, including concentrations below the UK Workplace Exposure Limit (WEL). Prolonged contact with the skin may cause tanning and irritant effects. Animal tests and other research indicate that skin contact with diisocyanates can play a role in causing isocyanate sensitisation and respiratory reaction. Harmful if inhaled. May cause sensitisation by skin contact.

Inhalation

Irritating to respiratory system. Rabbit

Skin contact

Slightly irritating. to Rabbit

Eye contact

Slightly irritating. to Rabbit Mucous membranes

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Do not allow to enter soil, waterways or waste water channels.

12.1. Toxicity

Acute Toxicity - Fish

LC0 96 hours > 100 mg/l Brachydanio rerio (Zebra Fish)

Acute Toxicity - Aquatic Invertebrates

EC0 48 hours > 100 mg/l Daphnia magna

EC50 72 hours > 1.000 mg/l Scenedesmus subspicatus

Acute Toxicity - Microorganisms

EC50 3 hours 3.828 mg/l Activated sludge

12.2. Persistence and degradability

Degradability

The product is not readily biodegradable.

Stability (Hydrolysis)

Half-life: 7.7 hours 23°C

12.3. Bioaccumulative potential

Bioaccumulative potential

Will not bio-accumulate.

Partition coefficient

log Pow@ ca. 9, 81 (value calculated)

12.4. Mobility in soil

Adsorption/Desorption Coefficient

Not applicable.

Soil

Henry's Law Constant

< 0000001 Pa m³/mol 25

Surface tension

Not applicable.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Reacts with water.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Do not allow to enter drains, sewers or water courses.

13.1. Waste treatment methods

STONE BINDER-AL (PU4844 UNPIGMENTED ALIPHATIC STONE BINDER PART B)

Dispose of in accordance with local and national regulations. The packaging must be empty (drop-free, when inverted). Where practical, containers and packaging should be recycled by a licensed contractor. Do not discharge onto the ground or into water courses.

SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Environmental Listing

No listing noted.

15.2. Chemical Safety Assessment

Not applicable.

SECTION 16: OTHER INFORMATION

Revision Date 03/10/2011

Risk Phrases In Full

R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R23	Toxic by inhalation.

Hazard Statements In Full

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.