SAFETY DATA SHEET

Product: GeoBondX UVR - Part A - Base

Revision: 5/10/2016

Page 5 of 5

12.3 Bio-accumulative potential: Contains potentially bio-accumulating substances.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Waste is classified as hazardous waste. Disposal to a waste disposal site in

accordance with the local waste disposal authority. Incinerate in suitable combustion chamber, with provision for removal of effluent gases by scrubber.

Collect on absorbent material.

Dike ahead of spill for later disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number: Not classified

14.2 SHIPPING NAME: N/A

14.3 Transport Hazard Class (ADR): Not classified14.4 Packaging Group: Not classified

IMDG:

14.5 Emergency Action Code: N/A

14.6 ICAD/IATA: Not classified

14.7 TREM CARD: N/A14.8 Marine Pollutant: No

SECTION 15: REGULATION INFORMATION

15.1 Safety, health and environmental regulations

UK Regulatory References: Health and Safety at Work Act 1974
Statutory instruments: Control of Substances Hazardous to Health

Guidance Notes: Workplace Exposure Limits EH40

EU Legislation: Dangerous Substance Directive 67/548/EEC

Regulation (EC) No 1272/2008 CLP Regulation (EC) No 1907/2006 REACH

Reference should be made to Health and Safety at Work Act and the control of substances hazardous to Health Regulations.

SECTION 16: OTHER INFORMATION

16.1. Hazard Statements in full:

H303 May be harmful if swallowed H316 Causes mild skin irritation

H317 May cause an allergic skin reaction

H320 Causes eye irritation

H335 May cause respiratory irritation

Classification in line with CLP

The information contained in the safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and has been compiled from data on raw materials. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.



SAFETY DATA SHEET

Product: GeoBondX UVR - Part B - Activator

Page 1 of 7

Issued: 5/10/2016

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 Product Identifier:

Product Name: GeoBondX UVR - Part B - Activator

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

Identified uses: Two Pack Hybrid Urethane for Resin-Bound Aggregate Systems

1.3 Details of supplier of the safety data sheet

Supplier: Adbruf Ltd

Gibbs Marsh Trading Estate
Stalbridge, Dorset, DT10 2RX
Tel: + 44 (0)1963 362640
Fax: + 44 (0)1963 363762
Email: sales@adbruf.com

Contact Person: Hassan Yousaf

1.4 Emergency telephone number

Please contact: +44 (0)1963 362640

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification: (1272/2008/CE) Physical & chemical hazards / Fire and explosion hazards:

Harmful by inhalation. This product is a respiratory sensitiser: repeated inhalation Inhalation:

of vapour or aerosol at levels above the occupational exposure limit could cause respiratory sensitisation. The onset of the respiratory symptoms could be delayed for

several hours after exposure. A hyper-reactive response to even minimal

concentrations of GeoBondX UVR Activator may develop in sensitised persons. Liquid is irritating to skin, may cause dermatitis. Repeated and/or prolonged contact May cause

skin sensitisation.

Skin contact: Vapour and liquid irritating to eyes.

Liquid if ingested may cause vomiting, nausea, dizziness and unconsciousness.

Eye contact: Ingestion:

2.2 Label elements:



Contains: Hexamethylene-1,6-diisocyanate homopolymer (100%)

Signal word: WARNING

Hazard statements:

H317 May cause an allergic skin reaction

H332 Harmful if inhaled

H335 May cause respiratory irritation



Page 2 of 7

SAFETY DATA SHEET

Product: GeoBondX UVR - Part B - Activator Issued: 5/10/2016

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P280 Wear protective gloves/protective clothing/eye protection/

face protection

P285 In case of inadequate ventilation wear respiratory protection

P302 + P352 IF ON SKIN wash with plenty of soap and water

P304 + P340 If INHALED Remove victim to fresh air and keep at rest in a

position comfortable for breathing

P333+P313 If skin irritation or rash occurs, get medical advice/attention

Supplementary precautionary statements:

P102 Keep out of reach of children

P202 Do not handle until all safety precautions have been read and

understood

P240 Ground bond container and receiving container

P262 Do not get in eyes, or skin or on clothing
P271 Use only outdoors or in a well ventilated area

P362 Take off contaminated clothing and wash before reuse

P405 Store locked up

P306 + 360 + 313 If IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

P501 Dispose of contents/container in accordance with local

regulations

P403 + 233 + 235 Store in a well ventilated place. Keep container tightly closed

Keep cool.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Preparation:

Component CAS-No Wt%

Hexamethylene-1,6-diisocyanate

homopolymer

28182-81-2

100

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

General information: Consult a physician for specific advice. Take off all contaminated clothing

immediately.

Inhalation: Move the exposed person to fresh air at once. Keep them warm, let them rest. If

there is difficulty in breathing, medical advice is required.

Skin contact: In case of skin contact, wash affected areas thoroughly with soap and plenty of

water. Consult a doctor in the event of a skin reaction.

Eye contact: Hold the eyes open and rinse with preferably lukewarm water for at least 10

minutes. Consult an ophthalmologist.



Page 3 of 7

SAFETY DATA SHEET

Product: GeoBondX UVR - Part B - Activator Issued: 5/10/2016

Ingestion: DO NOT induce vomiting. Get medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Extinguishing media: Use foam, Carbon dioxide (CO₂), Dry chemicals, sand, dolomite etc. High volume water jet is not suitable.

Keep run-off water out of sewers and water sources. Dike for water control. Move container from fire area if it can be done without risk. Avoid water in straight hose stream; will scatter and spread fire. Use water SPRAY only to cool containers! Do not put water on leaked material.

5.2 Special hazards:

Hazardous combustion: Carbon monoxide & dioxide, Nitrogen oxides, Isocyanate vapour, Hydrogen Cyanide (trace).

5.3 Advice for fire fighters:

Wear suitable respiratory protection (self-containing breathing apparatus) when dealing with a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear protective clothing and respiratory protection. Then follow as described in

Section 8 of this data sheet.

6.2 <u>Precautions to environment:</u> Do not let the product or washing down water enter any natural water courses or the

sewers.

6.3 Spill clean up methods: Remove mechanically; cover the remainder with wet, absorbent material (e.g.

sawdust, chemical binder based on calcium silicate hydrate, sand). After

approximately 1 hour transfer to waste container and do not seal (evolution of carbon

dioxide!). Keep damp in a safe ventilated area for several days.

6.4 Reference Sections: Section 8 and 13 of this data sheet.

SECTION 7: HANDLING AND STORAGE

7.1 <u>Usage precautions:</u> Take precautionary measures against static discharges.

Keep away from heat, sparks and open flame

Eliminate all sources of ignition.

7.2 Storage precautions: Avoid inhalation of vapours/spray and contact with skin and eyes.

Provide good ventilation. May attack some plastics, rubber and coatings. Keep in cool,

dry ventilated storage and closed containers. Ground container and transfer

equipment to eliminate static electric sparks.

7.3 Use as described in section 1.2 of this data sheet



Page 4 of 7

Issued: 5/10/2016

SAFETY DATA SHEET

Product: GeoBondX UVR - Part B - Activator

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values:

Substance	CAS-No.	Basis	Туре	Value	Ceiling Limit Value	Remarks
Hexamethylene- 1,6- dissocyanate homopolymer	28182-81-2	EH40 WEL	TWA	0.02 mg/m3		. measured as NCO
Hexamethylene- 1,6- dissocyanate homopolymer	28182-81-2	EH40 WEL	STEL	0.07 mg/m3		. measured as NCO

8.2 Exposure controls:

Respiratory protection: Keep below acceptance limit by use of local and general exhaust ventilation or use of

an approved respirator:

Organic vapour respirator with filter compliant with EN141:2000.

Eyes: Approved solvent goggles – Contact lenses should not be worn when working with

this chemical.

Eye protection compliant with EN166.

Hand protection: Approved protective gloves.

Impervious gloves compliant with EN374:1994

Butyl Rubber – IIR: thickness >0.5mm; breakthrough time >480mins

Fluorinated Rubber - FKM: thickness >0.4mm, breakthrough time >480mins

Laminate glove – PE/EVAL/PE: breakthrough time >480mins Contaminated gloves should be disposed of immediately

Footwear: Safety Footwear compliant with EN345:1 (Class S)/EN ISO 20345:2004, 2007, 2011.

Skin: Approved solvent resistant overalls.

Other Protection: Wash at the end of each work shift and before eating, smoking and using the toilet.

Wash promptly with soap and water if skin becomes contaminated.



Page 5 of 7

SAFETY DATA SHEET

Product: GeoBondX UVR - Part B - Activator

Issued: 5/10/2016

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

These are indicative values only. Please refer to the product specification sheet.

Physical state: Low viscosity liquid

Form/colour: Colourless Odour: Odourless

Decomposition temperature ca. 250 °C

Ignition temperature: ca 440°C

Specific Gravity (Water = 1): 1.17g/cm³ Vapour Density (Air = 1): Heavier than air Vapour Pressure: <0.007hPa (at 20°C) Evaporation Rate: not established Flash Point (°C) (Closed Cup): ca. 228 C° Flammability Limit (lower %): n/a Flammability Limit (upper %): n/a

SECTION 10: STABILITY AND REACTIVITY

10.1 Stability: Stable when stored and handled correctly.

10.2 Possible hazardous reactions: Exothermic reaction with materials containing active

Hydrogen groups e.g amine, alcohols. Reacts with water forming Carbon Dioxide; risk

of bursting of closed vessels.

10.3 Hazardous decomposition products: Toxic fumes evolved.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects:

Ingestion: Liquid if ingested may cause vomiting, nausea, dizziness and unconsciousness.

Skin contact: Liquid is irritating to skin, may cause dermatitis.

Inhalation: Liquid and vapour is irritant. May cause drowsiness, nausea, dizziness and ultimately

unconsciousness.

Eye contact: Rinse carefully and thoroughly with water. Seek medical advice.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

12.2 Mobility: The preparation will flow to an extent and should be contained if spilt. Do not allow to

escape into waters, surface water or soil.



SAFETY DATA SHEET Page 6 of 7

Product: GeoBondX UVR - Part B - Activator Issued: 5/10/2016

12.3 Persistence and

Degradability: This product reacts with water forming an inert non biodegradable material

12.4 Bio-accumulative potential: Contains potentially bio-accumulating substances. Water pollution class

(WGK) - 1: slightly hazardous to water.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Waste is classified as hazardous waste. Disposal to a waste disposal site in

Accordance with the local waste disposal authority.

Incinerate in suitable combustion chamber, with provision for removal of effluent

gases by scrubber.

Collect on absorbent material. Dike ahead of spill for later disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number: n/a

14.2 SHIPPING NAME: RESIN SOLUTION

14.3 Transport Hazard Class (ADR): not dangerous goods

14.4 Packaging Group: n/a

IMDG: not dangerous goods14.5 Emergency Action Code: n/a14.6 ICAD/IATA: not dangerous goods

14.7 TREM CARD: n/a **14.8** Marine Pollutant: n/a

SECTION 15: REGULATION INFORMATION

15.1 Safety, health and environmental regulations

UK Regulatory References: Health and Safety at Work Act 1974
Statutory instruments: Control of Substances Hazardous to Health

Guidance Notes: Workplace Exposure Limits EH40

EU Legislation: Dangerous Substance Directive 67/548/EEC

Regulation (EC) No 1272/2008 CLP Regulation (EC) No 1907/2006 REACH

Reference should be made to Health and Safety at Work Act and the control of substances hazardous to Health Regulations.



SAFETY DATA SHEET

Product: GeoBondX UVR - Part B - Activator

Page 7 of 7

Issued: 5/10/2016

SECTION 16: OTHER INFORMATION

16.1. Hazard Statements in full:

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

Classification in line with CLP

In all areas where HDI aerosols and/or vapour concentrations are produced, exhaust ventilation must be provided in such a way that the OEL is not exceeded. Not readily biodegradable.

The information contained in the safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and has been compiled from data on raw materials. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.