MATERIAL SAFETY DATA SHEET

01. IDENTIFICATION

Trade Name	CEMTEC A1 BLACK PU
Chemical Name	Polyurethane Pre polymer
Manufacture's Name	CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES
Address:	P.O. Box 7137, Dammam, 31462 Saudi Arabia
Tel:	+966 13 847 1450
Emergency Tele Phone Number:	+966 13 847 1450

Date Prepared: 6/9/2018

02 INGREDIENTS

Material	CAS	%
Plasticizer	53306-54-0	20-25
TDI Prepolymer	9052-50-0	20-25
Calcium Carbonate	471-34-1	30-35
Xylene	100-41-4	12-16
Barium Sulphate	7727-43-7	5-10
Carbon black	1333-86-4	1-2

03. HAZARDES IDENTIFICATION

Pre polymer based on aromatic polyisocyanate
CAS- No : 37273-56-6
Toluene 2,4-diisocyanate
Index-No : 615-006-00-4

Hazard statements:
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.

Precautionary statement:
P280 Wear protective gloves/ eye protection/ face 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.
P305+P351 If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Hazardous components
Toluene 2,4 diisocyanate

Concentration [wt.-%]	:>=99,5
Index-No	: 615-006-00-4
EC-No.	: 209-544-5
Reach Registration No	: 01-2119486974-18-0001, 01-2119486974-18-0002
CAS-No.	: 584-84-9

EFFECTS OF OVER EXPOSURE

Inhalation	: Contains materials which can cause respiratory irritation
Eye	: May cause chemical burn in eye. Damage may be irreversible.
Skin	: May cause sensitization and other allergic responses. may cause chemical burn on skin.
Ingestion	: No specific information available Contains materials which are Moderately toxic, may cause irritation or burns in mouth, oesophagus or stomach

02. FIRST AID MEASURES

Description of first aid measures

General advice	: Take off all contaminated clothing immediately
Inhaled	: Take a person into the fresh air and keep him warm. Let him 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 water. Consult a doctor in the event of a skin reaction.

Eye contact : Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes) contact an ophthalmologist.

Swallowed : DO NOT induce the patients to vomit, medical advice is required

03. FIRE FIGHTING MEASURES

Suitable extinguishing media: carbon dioxide (CO2), foam extinguishing powder, in case of large fires, water spray should be used

Unsuitable extinguishing media: High volume water jet

Special hazards arising from the substance or mixture:

Burning releases carbon monoxide. Carbon dioxide, oxides of nitrogen, isocyanate vapors and traces of hydrogen cyanide. In the event of fire and /or explosion do not breathe fumes.

Active for fire-fighters:
During fire-fighting respirator with independent air-supply and airtight garment is required.
Do not allow contaminated extinguishing water to enter the soil, ground water or surface waters.

06. ACCIDENTAL RELEASE MEASURES

Personal precautions protective equipment and emergency procedures: Put on protective equipment (see section 8) Ensure adequate ventilation/ exhaust extraction. Keep unauthorized person away.

Environment related measures: Do not allow to escape into waterways, wastewater or soil.

Methods and material for containment and cleaning up: Remove mechanically; cover the reminder with wet, absorbent material (e.g. Sawdust, chemical binder based on calcium silicate hydrate, sand) after approx. one hour transfer to waste container and do not seal (evaluation of CO2) Keep damp in a safe ventilated area for several days.

07. HANDLING & STORAGE

All chemical should be handled so as to prevent eye contact and excessive or repeated skin contact. Wear protective equipment and clothing during cleanup. Inhalation of mist/vapours should be avoided. Avoid moisture contact and avoid extreme heat conditions

Avoid contact with skin. Thoroughly lauder contaminated clothing before reusing, discard Contaminated shoes Enforce good house-keeping practice and ground containers when transferring materials.
Keep containers tightly closed and store in a well ventilated cool, dry location. Do not store Above 120°F

08. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation	Local exhaust: Recommended when appropriate to control\ Employee exposure. Mechanical (General) may not be adequate as the sole means of controlling employee exposure
Respiratory	Local exhaust: Recommended when appropriate to control Employee exposure mechanical (General) may not be adequate as the sole means of controlling employee exposure. Use with adequate ventilation half mask dual or air supplied respirator should be used where ventilation is inadequate.
Eye protection	Chemical splash goggles
Protective gloves	Rubber, Neoprene
Other	wash before eating, drink or smoke to avoid contact

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Black Viscous liquid
Odour	:	Aromatic Odour
Melt point	:	N.A
Specific Gravity	:	1.35±0.05@25°C
Vapour Density (Air=1):		>1.0
VOC Content	:	230g/Lt
Bulk Density	:	NA
Boiling Point	:	154-190°C
Vapour Pressure	:	N.A
% Solubility (H2O)	:	N.A

10. STABILITY AND REACTIVITY

Chemical Stability	:	stable under normal conditions of storage and handling
Condition to avoid	:	Direct sunlight and extreme temperature. Contact with Water, alcohol, amines, acids and alkalis.
Hazardous decomposition	:	carbon dioxide, carbon monoxide Oxide of nitrogen &
Product	:	Sulphur on burning
Special Sensitivity	:	N.E

11. TOXICOLOGICAL INFORMATION

Please find below the data available to us:

Information on toxicological effects

Acute toxicity, oral:
Prepolymer based on aromatic poly isocyanate
LD50 rat> 5.000mg/kg
Toxicological studies of a comparable product.

Toluene 2,4-disocyanate
LD50 rat, male: 5.110mg/kg
Method: OECD Test guideline 401
Toxicological studies of a comparable product

LD50 rat, female 4.130mg/kg
Method OECD test guideline 401
Toxicological studies of a comparable product.

Acute toxicity Inhalation
Toluene 2,4- diisocyanate
LD50 rabbit male/female>9.400mg/kg
Method OECD test guideline 402
Studies of a comparable product.

Acute toxicity, inhalation

Prepolymer based on aromatic polyisocyanate
LC50 rat:
Assessment: the substance or mixture has no acute inhalation toxicity

Toxicological studies of a comparable product.

Toluene 2, 4-diisocyanate
LC50 rat, male/female 0.47mg/l 1h
Test atmosphere; vapour
Method: OECD Test Guideline 403
Toxicological studies of comparable product.

LC50 rat male/female: 0.170mg/l, 4h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Toxicological studies of comparable product.
Primary skin irritation

Prepolymer based on aromatic polyisocyanate
Species: rabbit
Result: slight irritant
Classification: No skin irritation
Toxicological studies of a comparable product

Toluene 2,4- diisocyanatate
Species: rabbit
Result: severe irritant
Classification: causes skin irritation.
Toxicological studies of a comparable product.

Sensitization
Prepolymer based on aromatic polyisocyanate
Skin sensitization:
Species: guinea pig
Result: positive
Classification: May cause sensitization by skin contact.
Toxicological studies of a comparable product.

12. ECOLOGICAL INFORMATION

Do not discharge the product to waterways or sewers. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Not bio-degradable

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable international and local laws, ordinance and statues for disposal within the EC, the appropriate code according to the European waste catalogue (EWC) should be used

Waste treatment methods
After final product withdrawal, all residues must be removed from containers (drip-free, powder free or paste-free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. These containers can be returned for recycling to the appropriate cateress set up within the frame work of the existing take back scheme of the chemical industry. Containers must be recycled in
Compliance with national legislation and environmental regulation.

None disposal into waste water

14. TRANSPORT INFORMATION

DOT Ground	:	- Non- Regulated.
DOT Air	:	- Paint, flammable Liquid.
DOT Marine	:	- Paint, Flammable Liqui

15. REGULATORY INFORMATION

Sara Title III (Section 313 Toxic Chemical Information):

Chemical Name	**CAS#**	**Concentration**
Toluene Diisocyanate	26471-62-51	Trace amount may be percent

16. OTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from The use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.

Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.