



GMSA Anchoring Bolt Epoxy

Prepared on: 23/09th/2020
Version: 1.0

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1. Identification of the substance/preparation and company

1.1 Trade name: GMSA Anchoring Bolt Epoxy
1.2 Typical application: Heavy duty anchoring free of expansion pressure
1.3 Manufacturer/supplier: GMSA INDUSTRIES (PVT) LTD.
1.4 Address: 141, 142-A 1st Floor. Shoaib Bilal Market, Faisalabad, Pakistan
1.5 Telephone: (041) 8783467
1.6 Telefax: 0092-41-878 7706
1.7 Email: Info@gmsa.com.pk
1.8 Website: www.gmsa.com.pk

2. Composition/information on ingredients

Component A:

A.2.1 Chemical characterization: Formulation of methacrylates and cement

A.2.2 Dangerous components:

CAS — No.	EWG-No.	Material	Content [%]	R-Phrases
97-90-5	202-617-2	Ethan-1,2-dioldimethacrylate	< 5	36/37/38, 43
65997-15-1		Portland cement according to TRGS 613	< 20	38, 41

Component B:

B.2.1 Chemical characterization: Formulation of dibenzoyl peroxide, phlegmatised

B.2.2 Dangerous components:

CAS — No.	EWG-No.	Material	Content [%]	R- Phrases
94-36-0	202-327-6	Dibenzoyl peroxide, phlegmatised	< 15	2, 7, 36, 43

3. Hazards identification

3.1 Hazard description:

A Irritant
B Oxidising

3.2 Information pertaining to particular dangers for man and environment:

B R 7 May cause fire.
A R 41 Risk of serious damage to eyes.
A, B R 43 May cause sensitization by skin contact.

4. First aid measures

4.1 General information: Remove contaminated clothing.
4.2 After inhalation: Rest, fresh air.
4.3 After skin contact: Rinse thoroughly using water and soap.
4.4 After eye contact: Open lid and thoroughly flush for 10 — 15 minutes using clean water. Consult a doctor.
4.5 After swallowing: Immediately rinse out the mouth. DO NOT induce vomiting. Consult a doctor.
4.6 Indications for the doctor: None.



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5. Fire-fighting measures

- | | |
|---|--|
| 5.1 Suitable extinguishing media: | Spray water, foam, dry powder extinguisher, carbon dioxide (CO ₂). |
| 5.2 For safety reasons unsuitable extinguishing media: | Water applied with full jet. |
| 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: | Fire may release carbon monoxide (CO) and carbon dioxide (CO ₂). |
| 5.4 Special protective equipment for fire fighting: | Use breathing apparatus with independent air supply. |
| 5.5 Other information: | None. |

6. Accidental release measures

- | | |
|---|--|
| 6.1 Person-related safety precautions: | Move all persons out of the hazard area. |
| 6.2 Measures for environmental protection: | Do not allow to reach open waters, sewers or water pipes. |
| 6.3 Measures for cleaning/absorption: | Use-liquid-binding material (e.g. sand, dry earth) to soak up. Take up solids by mechanical means. Fill into sealable and labelled containers and dispose. |
| 6.4 Other information: | None. |

7. Handling and storage

7.1 Handling:

- | | |
|---|---|
| 7.1.1 Information for safe handling: | Use only in well ventilated work areas. Avoid direct exposure to sunlight. Maximum temperature (short-term) 35°C. |
| 7.1.2 Information about protection against explosions and fires: | Keep product away from heat sources, open fires, etc., do not smoke. |

7.2 Storage:

- | | |
|--|---|
| 7.2.1 Requirements to be met by storerooms and receptacles: | Keep cartridge tightly sealed in its original package and store in a dry, cool (max. 25°C) and well-ventilated place. |
| 7.2.1 Rules for the mixed storage of chemicals: | Do not store together with combustible substances. |
| 7.2.3 Further information about storage conditions: | Keep dry. |



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8. Exposure controls and personal protection

8.1 Additional information:
None.

8.2 Personal protective equipment:

Respiratory protection:	Not required.
Hand protection:	Wear suitable protective gloves made of nitrile.
Eye protection:	Tight-fitting safety goggles.
Body protection:	Wear closed working clothes.
General protective and hygienic measures:	Do not eat, drink or smoke while working. Immediately remove Contaminated clothes. Protect skin with protective skin cream. Avoid contact with skin, eyes and clothes.

9. Physical and chemical properties

9.1 Appearance:	Component A	Component B	
Form:	Paste	Paste	
Colour:	Light grey	White	
Odour:	Characteristic	Weak	
9.2 Safety parameters:			
ph - Value in g/l H₂O; °C:	Component A	Component B	Method:
Change in condition:			
Boiling point/boiling range:	°C	°C	
Melting point/melting range:	<-20 °C	approx.. 0 °C	
Oxidizing properties:	-	Yes	
Danger of explosion:	No	No	
Vapour pressure: at °C	hPa	hPa	
Density: at 20 °C	1.74 g/cm ³	1.47 g/cm ³	
Viscosity: at 20 °C	900000-1500000 mPa s	800000-1200000 mPa s	Brookfield Sp 7 0.5 rpm
Solvent content:	%	%	
9.3 Further information:	N/A		

10. Stability and reactivity

10.1 Conditions to be avoided:	Direct exposure to sunlight and temperatures exceeding 35°C.
10.2 Materials to be avoided:	None known, if cartridge is not damaged.
10.3 Hazardous decomposition products:	None, if used as specified.



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11. Toxicological information

11.1 Acute toxicity:	LD50/LC50 values which are relevant for classification: The product has not been tested.
11.2 Specific symptoms in animal studies:	The product has not been tested.
11.3 Irritant effects:	The product has not been tested.
11.4 Sensitization:	The product has not been tested.
11.5 Effects after repeated or longtime Exposition:	The product has not been tested.
11.6 Carcinogenic, mutagenic, teratogenic or dangerous effects on fertility:	No.
11.7 Further toxicological information:	N/A

12. Ecological information

12.1 Information on elimination:	(Persistence and degradability): No information available.
12.2 Behavior in environmental compartments:	No information available.
12.3 Ecotoxicological effects:	No data available.
12.4 Further ecological information:	Do not allow components to reach open waters, sewers or water pipes.

13. Disposal consideration

13.1 Product:	
13.1.1 Recommendation:	Uncured: Waste material requiring special supervision, to be disposed in compliance with official local regulations (e.g. suitable incineration plant). Cured: May be disposed in compliance with official local regulations as domestic waste.
13.2 Contaminated packaging:	
13.2.1 Recommendation:	Have to be disposed in compliance with official local regulations.
13.2.2 Recommended cleaning agent:	Cartridge cannot be cleaned.

14. Transport information

None.

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15. Regulations

15.1 Labeling:

Component A:

15.1.1 Symbol(s) and indication(s) of danger:



Xi - Irritant

Component B:

15.1.2 Symbol(s) and indication(s) of danger:



Oxidizing