

## 1. IDENTIFICATION

Product Name	:	3D Epoxy Solvent Free (BMA-3DE000)			
Color	:	Clear			
Material Uses	:	Part A of a Two-component Epoxy Solvent Free for			
		Flooring. Also refer to SDS Part B.			
Manufacturer	:	BMA Commercial and Industrial s.a.r.l			
		Industrial Valley, Ain Saade			
		Nahr El Mot 55091, North Metn			
		Lebanon			
Telephone Number	:	+961. 1. 885385 / 485			
Emergency Phone	:	+961. 1. 885385 / 485			
Number					
Fax Number	:	+961.1.885685			
E-mail	:	info@bmapaints.com			
Website	:	www.bmapaints.com			

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Physical State :	Liquid
Odor :	Light to mild odor
Eyes :	Particles in the eyes may cause serious eye irritation.
Skin :	Skin irritation – Category 2
	Causes skin irritation. May cause an allergic reaction.
Ingestion :	May cause stomach pain or vomiting.
Inhalation :	Vapours may cause drowsiness and dizziness.

#### **Label Elements**

Hazard Pictograms





BMA Commercial & Industrial s.a.r.l. SAFETY DATA SHEET – 3D Epoxy Solvent Free – Part A

#### Signal Word: WARNING

#### Hazard Statements

H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H319 :	Causes serious eye irritation.
H411 :	Toxic to aquatic life with long lasting effects.

#### Precautionary Statements

P102	:	Keep out of reach of children.
P103	:	Read label before use.
P233	:	Keep container tightly closed.
P261	:	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	:	Wash hands, face and all exposed skin thoroughly after handling.
P270	:	Do not eat, drink or smoke when using this product.
P272	:	Contaminated work clothing should not be allowed out of the workplace.
P273	:	Avoid release to the environment.
P280	:	Wear protective gloves/ eye protection/ face protection.
P333 + P313		If skin irritation or rash occurs: get medical advice/ attention.
P337 + P313		If eye irritation persists: get medical advice/ attention.
P362 + P364	:	Take off contaminated clothing and wash it before reuse.

#### Supplemental Information

EUH205

: Contains epoxy constituents. May produce an allergic reaction.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

	Chemical Nam	ne <u>CAS N</u>	lumber 🤶	<u>% by weight</u>				
	Epoxy resin	500-	033-5	50 - 100				
	Aliphatic glycic	lyl 6860	9-97-2	5 – 50				
	ether							
Components	not listed are n	ot physical	or health	hazards as	define	ed in 2	<u>2</u> 9 C	CFR
1910,1200 Haz	ard Communica	tion Standar	d					



Paints BMA Commercial & Industrial s.a.r.I. SAFETY DATA SHEET – 3D Epoxy Solvent Free – Part A

### 4. FIRST-AID MEASURES

BMA

Eye Contact	:	Flush eyes with large amount of water for at least 15 minutes without rubbing eyes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Consult a physician if irritation persists.
Skin Contact	:	Remove affected person from source of contamination. Immediately remove all
		contaminated clothing, including footwear. Wash affected areas thoroughly with soap and water. Consult a physician in case of a lasting irritation.
Inhalation	:	If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing. In case of unconsciousness place patient stably in side position for transportation.
Ingestion	:	If swallowed, seek medical advice immediately and show this SDS. Do not induce vomiting without
		medical advice. It vomiting occurs, lean patient forward or place on left side (head-down position) to maintain open airway and prevent aspiration. Never give liquid to a person showing signs of being sleepy or with reduced awareness.

## **5. FIRE-FIGHTING MEASURES**

Special Hazards arising : from the product	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics – Carbon monoxide – Carbon dioxide.
Suitable Extinguishing : Media	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams are preferred.
Unsuitable Extinguishing :	Do not use direct water stream. May spread fire.
Media	
Fire Fighting Procedures :	Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the grage in aggs of riving sound from venting safety
	area in case of rising sound from venting safety



Paints BMA Commercial & Industrial s.a.cl. SAFETY DATA SHEET – 3D Epoxy Solvent Free – Part A

	device or discoloration of the container. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.		
Special Protective :	Avoid breathing fire vapours.		
Equipment and	Cool containers exposed to flames with water.		
precautions for fire-	Wear breathing apparatus, protective gloves and		
fighters	eye protection. Use fire-fighting procedures suitable for surrounding area.		
	<ul><li>Employ protective equipment commonly used in the event of fire.</li><li>Avoid inhalation of fumes from residue.</li><li>DO NOT approach containers suspected to be hot.</li></ul>		

## 6. ACCIDENTAL RELEASE MEASURES

BMA

Personal Precautions, : Protective Equipment and Emergency Procedures	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Ensure adequate ventilation, do not breathe dust and vapours. Use appropriate safety equipment. (see Section 8)
Environmental :	Prevent from entering into soil, ditches, sewers,
Precautions	waterways and/or groundwater.
Methods and materials for :	Contain spilled material if possible. Absorb with
containment and	materials such as:
cleaning up	Sand – Polypropylene fiber products – Polyethylene fiber products.
	Remove residual with soap and hot water. Collect in
	suitable and properly labeled containers. Residual
	can be removed with solvent. Solvents are not
	recommended for clean-up unless the
	recommended exposure guidelines and safe
	handling information and exposure guidelines.





### 7. HANDLING AND STORAGE

Precautions for Safe : Handling	Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire. Application of a direct flame to a container of liquid epoxy resin can also	
	cause explosion and/or fire.	
Conditions for Safe :	Recommended pumping and storage temperature	
Storage	for bulk shipments is 60 °C.	
	Store between +2 °C and + 43 °C.	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with Workplace Control Parameters

Control Parameter	ACGIH – No data available.
Exposure Controls	
Appropriate Engineering Controls	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure
	applicable exposure limit requirements or guidelines.
	general ventilation should be sufficient for most operations.
Respiratory Protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been
	experienced, or where indicated by your risk
	air-purifying respirator: organic vapour cartridge with a particulate pre-filter, type AP2.
Eye/Face Protection	Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.
Skin Protection	Hand protection: Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples



Paints BMA Commercial & Industrial s.a.r.I. SAFETY DATA SHEET – 3D Epoxy Solvent Free – Part A

ΤΑ

	of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Neoprene. Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection
	class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as this level of protection is also highly dependent on the specific composition of the material that the glove is fabricated from. The thickness of the glove must, depending on model
	and type of material, generally be more than 0.35 mm to offer sufficient protection for prolonged and frequent contact with the substance. <u>Other protection:</u> Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.
Hygiene Measures :	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location

# 9. PHYSICAL AND CHEMICAL PROPERTIES (To start here)

Physical State	:	Liquid
Color	:	Clear
Odor	:	Light to mild odor
рН	:	Not applicable
Relative Density (g.cm <sup>-3</sup> )	:	(1.154 ± 0.005)
Flammability	:	Not applicable
Flash Point °C	:	> 65 °C
Flammability Limit – Lower	:	Not applicable
(%)		
Flammability Limit – Upper	:	Not applicable
(%)		
Lower Explosion Limit, vol	:	Not applicable
/ vol air		





Upper Explosion Limit, vol / vol air	:	Not applicable
Boiling Point (°C)	:	No data available
Melting Point (°C)	:	Not applicable
Solubility in water at 20 °C	:	No data available
Solid Content % wt	:	100 ± 1
Partition coefficient n-	:	No data available
Octanol/Water		

## **10. STABILITY AND REACTIVITY**

Stability and Reactivity	<ul> <li><u>Chemical stability:</u> The product is stable under recommended storage conditions.</li> <li><u>Possibility of hazardous reactions:</u> Will not occur by itself.</li> <li><u>Conditions to avoid:</u> Avoid short term exposures to</li> </ul>
	temperatures above 300 °C.
	350 °C.
	Avoid prolonged exposure to temperatures above 250 °C.
	Generation of gas during decomposition can cause pressure in closed systems. <u>Incompatible materials:</u> Avoid contact with oxidizing materials. Avoid contact with: acids, bases and unintended contact with amines.
Hazardous	Decomposition products depend upon
Decomposition Products	temperature, air supply and the presence of other materials. Gases are released during decomposition. Uncontrolled exothermic reaction of epoxy resins release phenolic, carbon monoxide and water.

## **11. TOXICOLOGICAL INFORMATION**

Specific information about the product itself are not available.

Component: <u>Epoxy Resin</u>		
Acute Oral Toxicity	:	LD50 (Rat) > 15,000 mg/Kg
		Very low toxicity if swallowed. Harmful effects not
		anticipated from swallowing small amounts.
Acute Dermal Toxicity	:	LD50 (Rabbit) = 23,000 mg/Kg
		Prolonged skin contact is unlikely to result in
		absorption of harmful amounts.





Paints BMA Commercial & Industrial s.a.c.I. SAFETY DATA SHEET – 3D Epoxy Solvent Free – Part A

Acute Inhalation Toxicity :	At room temperature, exposure to vapour is minimal due to low volatility. Vapour from heated material, mist or aerosols may cause respiratory irritation.	
Skin Corrosion/irritation :	Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin irritation with local redness.	
Serious eye damage/eye : irritation	May cause eye irritation. Corneal injury is unlikely.	
Sensitization :	Has caused allergic skin reactions in humans. Has demonstrated the potential for contact allergy in mice.	
Specific Target Organ : Systemic Toxicity (Single Exposure)	Evaluation of available data suggests that this material is not an STOT-SE toxicant.	
Specific Target Organ : Systemic Toxicity	Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are	
(Repeated Exposure)	not anticipated to cause any significant adverse	
Carcinogenicity :	Although some weak evidence of carcinogenicity	
- <i>i</i>	has been reported in animals, when all of the data	
	are considered, the weight of evidence does not	
Toratogonicity	show that the product is carcinogenic.	
relatogenicity .	on the foetus when pregnant rabbits were exposed	
	by skin contact, the most likely route of exposure, or	
	when pregnant rats or rabbits were exposed orally.	
Reproductive Toxicity :	: In animal studies, did not interfere with reproduction.	
Mutagenicity :	In vitro genetic toxicity studies were negative in some	
	cases and positive in other cases. Animal genetic	
A cur in add a su l l cur and	Toxicity studies were negative.	
Aspiration Hazara	Based on physical properties, not likely to be an	
	aspiration nazara.	

Component: <u>Aliphatic glycidyl ether</u>

Acute Oral Toxicity	: LD50 (Rat) = 17,100 mg/Kg
Skin Irritation	: Rabbit Draize Test: Mild irritation
Skin Sensitization	: Guinea Pig: Sensitizer





## **12. TRANSPORT INFORMATION**

	ADR/RID	IMDG	ICAO/IATA
TRANSPORTATION	Road	Marine	Airways
PROPER SHIPPING	Environmentally	Hazardous Substance	, Liquid, n.o.s. (Epoxy
NAME		resin)	
UN/ID No.		UN 3082	
HAZARD CLASS		9	
PACKAGING GROUP			_
CLASSIFICATION	NA.4		
CODE	1010		
EmS		FA, SF	
MARINE Pollutant		Yes – Epoxy Resin	
HS CODE	39073010		

## **13. OTHER INFORMATION**

Date of Issue	: 27-06-2018

