

## SECTION I – IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY INFORMATION

**AQUADRA FORSPEC PVT. LTD.**

2-A, Tower A, Viceroy Park, Kandivli (E),  
Mumbai – 400 101, Maharashtra, INDIA  
Tel.: 91-22- 2884 5705 ; Fax: 2887 2661

For Emergencies during transportation call :

**9820121022**  
24 hours a day - 7 days a week

**Product Name: Steel Epoxy Putty Stick**

**REVISION DATE: 30<sup>th</sup> November, 2014**

**General Info.:**

When fully cured, the mixture is non-hazardous.

**Chemical Family :**

Epoxy Resin and Adducted curing Agent.

## SECTION II – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS#	APPROX%	CLASSIFICATION
EPOXY RESIN	25068-38-6	16 - 20	R43 Xi;R36/38 N;R51/53
POLYMERCAPTAN	Proprietary	16 - 20	
TRIS-DIMETHYLAMINO-METHYL PHENOL	90-72-2	01 - 03	
TITANIUM DIOXIDE	13463-67-7	00 - 01	
MAGNESIUM SILICATE	14807-96-6	20 - 27	
KAOLIN	1332-58-7	08 - 13	
BARYTES	7727-43-7	45 - 55	

The full text for all R-Phrases are displayed in Section XV

## SECTION III – HAZARDS IDENTIFICATION

APPEARANCE	COLOUR	ODOR
THICK PUTTY	Available in VARIOUS COLOURS	LOW ODOR

WARNING! Eye and skin Irritant. Potential skin sensitizer. May be harmful if swallowed. Harmful to aquatic organisms.

**CLASSIFICATION : Xi; R36/38. R43. R52/53**

**PRIMARY ROUTES OF EXPOSURE :** \_\_\_Inhalation \_\_\_X\_Skin contact \_\_\_X\_Eye contact \_\_\_X\_Ingestion

**SYMPTOMS OF ACUTE OVEREXPOSURE :**

**SKIN CONTACT :** POSSIBLE IRRITANT AND SENSITIZER TO SENSITIVE SKIN.

**EYE CONTACT :** POSSIBLE IRRITANT AND SENSITIZER.

**INGESTION :** IRRITATION OF INTESTINAL TRACT. MAY CAUSE NAUSEA, VOMITING, DIARRHEA

**EFFECTS OF CHRONIC OVEREXPOSURE :**

Prolonged or repeated overexposure may cause allergic sensitization (rash, itching, redness).

**MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE :**

ALLEGIES, SKIN DISORDERS.

## SECTION IV – FIRST AID MEASURES

**EMERGENCY AND FIRST AID PROCEDURES :**

**INGESTION:** CONSULT A PHYSICIAN. DO NOT INDUCE VOMITING.

**INHALATION :** REMOVE THE EXPOSED PERSON TO FRESH AIR.

**SKIN CONTACT:** WASH WITH SOAP AND WATER IMMEDIATELY.

**EYE CONTACT:** FLUSH WITH WATER FOR 15 MINUTES. CONSULT A PHYSICIAN.

**SECTION V – FIRE FIGHTING MEASURES****FLASH POINT** : > 500°F**METHOD** : TCC**FLAMMABLE LIMITS** : (Above flammable limits in air)**LEL** : n/d ; **UEL** : n/d**FIRE EXTINGUISHING MEDIA** : WATER SPRAY, FOAM, CO<sub>2</sub>, DRY CHEMICALS.**SPECIAL FIRE FIGHTING PROCEDURES** : NONE**UNUSUAL FIRE AND EXPLOSION HAZARD** : NONE**HAZARDOUS PRODUCTS OF COMBUSTION** :

Oxides of carbon, sulfur and nitrogen. Aldehydes, ketones and other unknown organic compounds

**SECTION VI – ACCIDENTAL RELEASE MEASURES****SPILL CONTROL** : NOT APPLICABLE**CONTAINMENT** : NOT APPLICABLE**CLEANUP** : Absorb spillage on inert material and discard in suitable containers**SPECIAL PROCEDURES** : Prevent spill from entering drainage/sewer systems, waterways, and surface waters**SECTION VII – HANDLING AND STORAGE****Handling Precautions** :

---Keep hands away from eyes when handling material or before washing after use. Wash thoroughly after using-- particularly before eating.

---If this product is sanded or machined after curing, take appropriate precautions against inhalation of nuisance particulates. A TLV (Threshold Limit Value) of 2 mg/m<sup>3</sup> should be observed**Storage** : Store in tightly closed original container in Cool, Dry and well-ventilated place.**SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION****ENGINEERING CONTROLS** :**Ventilation** : General mechanical is satisfactory. If odor is disagreeable, use local exhaust.**Other engineering controls** : Have emergency shower and eye wash available**PERSONAL PROTECTIVE EQUIPMENT** :**Eye and face protection** : Wear Safety Glasses**Skin protection** : Polyethylene or Rubber gloves for prolonged use**Respiratory protection** : None needed in normal use with proper ventilation

IF SANDING CURED PUTTY OR SUBSTRATES, WEAR DUST MASK.

**OTHER PROTECTIVE EQUIPMENT AND HYGIENIC PRACTICES** : N/A**SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES****SPECIFIC GRAVITY (H<sub>2</sub>O=1)**  
2.1 – 2.4**VAPOR PRESSURE (mm Hg)**  
NIL @ 78°F**VOLATILE BY VOLUME (%)**  
0**VAPOR DENSITY (AIR=1)**  
> 1**EVAPORATION RATE (Butyl Acetate=1)** : < 1**SOLUBILITY IN WATER**  
NEGLIGIBLE**MELTING POINT**  
N/D**BOILING POINT**  
N/D**pH (5% solution in water)**  
9.5

**SECTION X - STABILITY and REACTIVITY**

<b>STABILITY</b>	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	NONE

**INCOMPATIBILITY (MATERIALS TO AVOID) :**  
 Strong oxidizing agents. Acids. Strong mineral and organic bases

**HAZARDOUS DECOMPOSITION PRODUCTS :**  
 CO, CO2, ALDEHYDES, ACIDS, OXIDES OF SULFUR AND NITROGEN.

<b>HAZARDOUS POLYMERIZATION</b>	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	NONE

**SECTION XI – TOXICOLOGICAL INFORMATION**

**Acute Oral Effects :** LD50 (rat) - No data available

**Acute dermal effects :** LD50 (rabbit) - No data available

**Acute inhalation effects :** LC50 (rat) - No data available

**Eye irritation :** Not available

**Sub chronic effects :** Not available

**Carcinogenicity, teratogenicity, and mutagenicity :**

- MUTAGENICITY: Liquid resins based on diglycidyl ether of Bisphenol A (DGEbPA), have proved to be inactive when tested by in vivo mutagenicity assays.
- CARCINOGENICITY: Recent 2-year bioassays in rats and mice exposed by the dermal route to DGEbPA yielded no evidence of carcinogenicity to the skin or any other organs.
- The International Agency for Research on Cancer (IARC) concluded that DGEbPA is not classifiable as a carcinogen (IARC group 3), that is human and animal evidence of carcinogenicity is inadequate

**Other chronic effects :**  
 Prolonged or repeated skin contact may cause sensitization, with itching, swelling, or rashes on later exposure. Studies have shown diglycidyl ether of bisphenol A resin to cause allergic contact dermatitis

THRESHOLD LIMIT VALUE :	ORAL N/D	DERMAL N/D	INHALATION N/D
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**SPECIFIC EFFECTS :**  
 Prolonged or repeated over exposure may cause allergic sensitization

<b>CARCINOGENICITY :</b>	<b>NTP</b> NO	<b>ACGIH</b> NO	<b>OSHA REGULATED</b> NO
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**SECTION XII - ECOLOGICAL INFORMATION**

**Eco-toxicity :** Contamination of the terrestrial and aquatic environments should be avoided.

**Mobility and persistence :** Not available

**Environmental fate :** Not available

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD :**  
 INCINERATE IN FURNACE OR BURY IN LANDFILL ACCORDING TO APPLICABLE REGULATIONS.

**WASTE MANAGEMENT RECOMMENDATIONS :**  
 Remove to a waste disposal facility operating in compliance with state and local regulations

## SECTION XIV – TRANSPORT INFORMATION

**General** : Product is not covered by International Regulation on Transport of Dangerous Goods.

**Proper shipping name** : Non-regulated

**Technical name** : N/A

**Hazard class** : N/A

**UN number** : N/A

**Packing group** : N/A

**Emergency Response Guide no** : N/A

**IMDG page number** : N/A

## SECTION XV – HAZARD LABELLING

	<u>HMIS</u>	<u>HAZARD RATING</u>
HEALTH	1	0 - MINIMAL
FLAMMABILITY	1	1- SLIGHT
REACTIVITY	0	2- MODERATE
		3- SERIOUS
		4- SEVERE

**LABELLING** : Xi

**CONTAINS** : Epoxy Resin (Mol. Wt. <=700)

**RISK PHASES** :

R36/38 : Irritating to eyes and skin.

R43 : May cause sensitization by skin contact.

R52/53 : Harmful to Aquatic Organisms.

**SAFETY PHASES** :

S2 : Keep out of reach of Children

S26 : In case of contact with eyes, rinse immediately

S28 : After contact with skin, wash immediately with plenty of soap and water.

S37 : Wear suitable gloves

S46 : If swallowed, seek medical advice immediately and show this container or label.

S24/25 : Avoid contact with skin and eyes

S36/39 : Wear suitable protective clothing and eye / face protection

S56 : Dispose off this material and its container to hazardous or special waste collection point

P5 : Contains Epoxy constituents

**STATUTORY INSTRUMENTS**

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

**APPROVED CODE OF PRACTICE**

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

**GUIDANCE NOTES** : Workplace Exposure Limits EH40. CHIP for everyone HSG (108)

## SECTION XVI – OTHER INFORMATION

**GENERAL INFORMATION**

This product should be used as directed by AQUADRA FORSPEC PVT. LTD. For further information consult the Product Data Sheet or consult Technical Services.

**INFORMATION SOURCES**

This safety data sheet was compiled using current safety information supplied by distributor of Raw Materials.

**REVISION COMMENTS**

This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is current. Destroy all previous Data Sheets and if in doubt contact AQUADRA FORSPEC PVT. LTD.

**REVISION DATE** : NOVEMBER 2014

N/A : NOT APPLICABLE

N/D : NOT DEFINED