Material Safety Data Sheet

STARBOND EPR PUTTY 700

Part A

Rev.: A, Date: 25.06.2025

STARBOND EPR PUTTY 700

The enclosed Material Safety Data Sheet (MSDS), provides the latest information of products you have received from our company. Since you may redirect the product to more than one workplace, please be ensured that this information is disseminated to all person's handling the product.

This MSDS, supersedes all previous sheets versions provided for the products. This version has either been revised since the last time you purchased the product. Replacement of an old version is highly recommended.

Our MSDS, is the primary awareness tool for transmitting the health and safety, environment and disposal information on our products. In fact, our highest concern and priority is that our customer understands the nature of hazards associated with the product, how to use it safely and in compliance with relevant regulations.

STAR Technologies, expects and highly recommends you to read and understand carefully the entire MSDS. There are some very significant information and guidelines you should know and be taken seriously. Strictly, follow the precautions identified and stated on this MSDS. Otherwise, you use conditions would necessitate other's appropriate methods or actions.

STAR Technologies, will not be liable for any MSDS obtained through other sources. Always ask STAR for an updated copy of MSDS, for assurance. Should you need any clarifications or inquiries regarding the safety handling, correct storage, proper uses and legal disposal of our products, don't hesitate to contact us.

1. Product & Use & Manufacturer Address

1.1	Product Name	:	STARBOND EPR PUTTY 700 Part A
1.2	Uses of Product	:	Two Component, Multi Purpose Epoxy Repair Putty.
1.3	Company	:	STAR Factory Company Ltd. 1st Industrial Area Jeddah, P.O. Box 22427 , Jeddah, Kingdom of Saudi Arabia Tel: +966 122680009 Email: Info@star-ksa.com

STARBOND EPR PUTTY 700

2. Hazardous Ingredients

2.1 Chemical Composition

Chemical	Weights	CAS Number
Epoxy resin	40-45	25068-38-6
Alkyl glycidyl ether C12/14	10-15	68609-97-2
Silica flour	20-30	14808-60-7
Additives	1-2	Proprietary

3. Hazardous Identification

3.1	Symbols	Xi, Irritant.
3.2	Risk Phrases	R36/R38, Irritation to eyes and skin. R43, May cause sensitization by skin contact.
3.3	Safety Phrases	S37/39, Wear suitable gloves and eye/face protection. S51, Use in a well-ventilated area.

4. First Aid Measures

4.1	Skin	Wash the affected area thoroughly with soap and water. Remove contaminated clothing. Render unusable and discard contaminated shoes and leather articles. If symptoms persists, contact a physician for medical advices.
4.2	Eyes	Remove contact lenses if wearing. Wash the eyes with warm water for about 15 minutes. If symptoms persists, contact a physician for medical advices
4.3	Inhalation	Bring the affected person to a place with fresh air immediately. In case victim is not breathing then apply the artificial respiration or provide him oxygen. Contact a physician immediately for medical advices.
4.4	Ingestion	If swallowed, wash out with plenty of water. If the victim still conscious give large amount of water. Never Induce vomiting to an unconscious person. Never give anything to eat to the affected person. Contact a physician immediately for medical advices.

STARBOND EPR PUTTY 700

5. Fire Fighting Measures

5.1	Fire Fighting Procedures	Foam, carbon dioxide and dry chemical. Wear protective equipment including self-contained apparatus.
5.2	Hazardous Combustion Products	Oxides of carbon and other possible toxic fumes from fire.

6. Accidental Release Measures

6.1	Personal Precautions	Wear suitable protective clothing, hand impervious gloves, eye/face protection gear and protective footwear like rubber boots.
6.2	Environmental Precautions	Avoid soil penetration. Do not allow to enter into drains, sewers and waterways.
6.3	Decontamination Procedures	Spill should be contained by bundling and absorbing with dry inert filler (e.g. vermiculite, sand and oil etc.), which can be shoveled into appropriately labeled drums. Disposal should be affected by approved waste disposal organization according to local regulations

7. Handling and Storage

7.1	Handling	Wear personal protective equipment as per section 8.
7.2	Storage	Keep containers tightly closed, under cool dry conditions. Keep away from food and drink. Keep out of reach of children. Store under cover and away from direct sunlight and moisture. Store at 5 -35 ^{o}C. Keep away from incompatible materials.

8. Exposure Controls / Personal Protection

8.1	Engineering Control Measures	Ventilation is recommended under normal use conditions. State regulations on speed and direction of airflow away from operators must be observed. Keep containers closed when not in use.

8.2	Exposure Standards	None established for this product.
8.3	Personal Protective Equipment	Respiratory – type A1, if ventilation is inadequate. Hands – gloves type AS2161, chemical resistant, impervious gloves e.g. PVC, butyl rubber or nitrile rubber gauntlets. Eyes – chemical worker's goggles or fitting safety glasses or full face shielded. Use standard clothing or suitable clothing which provides full skin coverage are suggested as a general precaution especially where heavy contamination is likely.

9. Physical and Chemical Properties

9.1	Physical State	Liquid
9.2	Color	Various
9.3	Odor	Epoxy odor
9.4	Boiling Point/Range	N/A
9.5	Melting Point	N/A
9.6	Flash Point	None
9.7	Auto Flammability	None flammable
9.8	Explosive Properties	Not explosive
9.9	pH	N/A
9.10	Specific Gravity	1.5 ± 0.1 kg./L.
9.11	VOC	<20g/L
9.12	Viscosity	High viscous thixotropic

10. Stability and Reactivity

10.1	Stability	Stable under recommended storage conditions.
10.2	Incompatibility	Incompatible with acids, oxidizing agents, alkalis and amines and strong sunlight or UV.
10.3	Hazardous Decomposition and Polymerization	Oxides of carbon and other possibly toxic fumes from fire. Hazardous polymerization will not occur

11. Toxicological Information

11.1	Health Hazard Summary	Susceptible individuals may develop allergic reactions such as dermatitis or asthma like symptoms on a single significant

ASTM INTERNATIONAL ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007 SAUDI MADE

		skin exposure or may become sensitized to the material on repeated contact. Hence, it is imperative that all forms of exposure be kept to an absolute minimum.
11.2	By Inhalation	May cause irritation to nose and mucous membrane.
11.3	On Eyes	May cause eye irritation, redness and may be capable of causing corneal scarring.
11.4	By Ingestioin	Only by strictly toxic

12. Ecological Information

12.1	Environmental Assessment	Do not discharge into sewers unless connected to a waste water treatment plant.
12.2	Mobility	Insoluble in water.
12.3	Persistence and Degradability	Not readily biodegradable.
12.4	Bio- accumulative Potential	Not expected to be bio-accumulative.

13. Disposal Considerations

Waste Management / Disposal: Disposal must be in accordance with the local and national legislation. According to an International Definition authorities, this product does not meet or classified containing hazardous waste.

14. Transport Information

CFR – ROAD: Not regulated for transport.

IATA – C: Not regulated for transport.

IMDG: Not regulated for transport.

CFR – RAIL: Not regulated for transport.

15. Regulatory Information

Hazard Label Data:

15.1	Hazardous Identity	Xi, Irritant. N, Dangerous for the environment.
15.2	Risk Phrases	R36/38, Irritating to eyes and skin. R43, May cause sensitization by skin contact R51/53, Toxic to aquatic organisms, may cause long term

ASTM INTERNATIONAL ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007 SAUDI MADE

		adverse effects in the aquatic environment.
15.3	Safety Phrases	S28, after contact with skin, wash immediately with plenty of water. S37, Wear suitable hand gloves and eye/face protection gear. S61, avoid release to the environment

16. Other Information

The data and advice given apply when the product is used for the stated applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet.

The product should not be used other than for the stated applications without seeking advices from STAR TECHNOLOGIES. If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken. This sheet does not constitute or substitute for the user's own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this MSDS can be obtained from STAR TECHNOLOGIES.

ASTM INTERNATIONAL ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007 SAUDI MADE

STARBOND EPR PUTTY 700

Material Safety Data Sheet

STARBOND EPR PUTTY 700

Part B

Rev.: A, Date: 25.06.2025

STARBOND EPR PUTTY 700

1. Product & Use & Manufacturer Address

1.1	Product Name	:	STARBOND EPR PUTTY 700 Part B
1.2	Uses of Product	:	Two Component, Multi Purpose Repair Putty.
1.3	Company	:	STAR Technologies. 1st Industrial Area Jeddah, P.O. Box 22427 , Jeddah, Kingdom of Saudi Arabia Tel: +966 122680009 Email: Info@star-ksa.com

2. Hazardous Ingredients

2.1 Chemical Composition

Chemical	Weights	CAS Number
Cycloaliphatic Amine	>90	Proprietary

3. Hazardous Identification

Hazardous Identification: C – Corrosive.

Risk Phrases: R20/ 21/ 22, harmful by inhalation, contact with eyes and skin and if swallowed.

R34, Causes burns.

R43, may cause sensitization by skin contact.

4. First Aid Measures

4.1	Skin	Wash the affected area thoroughly with soap and water. Remove contaminated clothing. Render unusable and discard contaminated shoes and leather articles. If symptoms persist, contact a physician for medical advices.
4.2	Eyes	Remove contact lenses if wearing. Wash the eyes with warm water for about 15 minutes. If symptoms persist, contact a physician for medical advices

4.3	Inhalation	Bring the affected person to a place with fresh air immediately. In case victim is not breathing then apply the artificial respiration or provide him oxygen. Contact a physician immediately for medical advices.
4.4	Ingestion	If swallowed, wash out with plenty of water. If the victim still conscious give large amount of water. Never Induce vomiting to an unconscious person. Never give anything to eat to the affected person. Contact a physician immediately for medical advices.

5. Fire Fighting Measures

5.1	Fire Fighting Procedures	Evacuate area immediately. Do not try to fight the fire.
5.2	Extinguishing Media	Deluge with plenty of water as quickly as possible using automatic sprinkles of fire hose from a protected location. Product is self-oxidizing.
5.3	Conditions to avoid	Avoid impact, friction, heat, sparks and flame.
5.4	Hazardous Combustion Products	If heated to combustion, the following substances may be formed; carbon monoxide, carbon dioxide, nitrogen, hydrogen, nitrogen oxide, methane, aldehydes, carboxylic acid and hydrogen cyanide

6. Accidental Release Measures

Clean up spills immediately using soft natural bristle brush and conductive rubber or conductive plastic shovel.

Use caution, material is sensitive to initiation from sources such as heat, flame, shock, friction and sparks.

7. Handling and Storage

7.1	Handling	Do not pressurize or expose containers to heat, flame, sparks, static electricity or other sources of ignition. Store only in Department of Transportation approved containers. Check old product for deterioration regularly.

ASTM INTERNATIONAL ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007 SAUDI MADE

7.2	Storage	Store in a cool and dry places with approximately 68°F (20°C). Do not store near flammable materials. Do not keep deteriorated or salvaged product. Do not store in direct sunlight or expose to UV radiation.Keep out of reach of children.

8. Exposure Controls / Personal Protection

8.1	General Hygienic Practices	Avoid contact with eyes, skin and clothing. Avoid breathing dust, vapor and mist. Wash thoroughly after handling and before eating, drinking and smoking. Do not contaminate foods, beverages and smoke materials. Remove contaminated clothing promptly and clean it before re-use. Throw contaminated leather materials.
8.2	Recommended Exposure Limits	Hazardous Component Wt. % Limit Basis: ppm mg/m³ ppm mg/m³ ACGIH N/E N/E N/E N/E ACGIH N/E N/E N/E N/E
8.3	Personal Protective Equipment	Safety glasses with high shields. Impervious hands gloves. Standardized respiratory protection (required when exposure to airborne contaminants may exceed acceptable limits). Respirator should be in accordance with OSHA, subpart 1 (29 CFR 1910, 134) and manufacturers recommended. Wear flame retardant clothing and conductive safety shoes.
8.4	Work Practices and Engineering Controls	Do not smoke in areas where powder is stored and used. Materials is shock sensitive, use care in handling. Keep away from ignition sources or friction. Eye wash faucets and showers should be easily accessible. Prevent build-up of static electric charges. Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits.
8.4	Protective Measures during Repair and Maintenance	Eliminate ignition sources and prevent build-up of static electric charges. Use spark proof tools and explosion proof equipment. Wetting work area with water will greatly reduce hazards.

ASTM INTERNATIONAL ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007 SAUDI MADE

		Completely remove product from area and clean all equipment, piping and vessels before beginning maintenance or repairs. A work permit system is recommended for any preparation and clean up.

9. Physical and Chemical Properties

9.1	Physical State	Liquid
9.2	Color	Light yellow
9.3	Odor	Slight
9.4	Boiling Point/Range	>150 ˚C
9.5	Melting Point	>70 °C
9.6	Flash Point	None
9.7	Auto Flammability	None flammable
9.8	Explosive Properties	Not explosive
9.9	pH	NA
9.10	Dry Bulk Density	0.97 ± 0.3 kg./L.
9.11	Viscosity	1.0 – 4.0 Poise
9.12	VOC	<10 g/L
9.13	Solubility in H2O	N/A

10. Stability and Reactivity

10.1	Stability	Stable under recommended storage conditions.
10.2	Incompatibility	Incompatible with acids, oxidizing agents, alkalis and amines and strong sunlight or UV.
10.3	Hazardous Decomposition and Polymerization	Oxides of carbon and other possibly toxic fumes from fire. Hazardous polymerization will not occur

11. Toxicological Information

11.1	Reported Human Effects	No human toxicity studies have been carried out with this product.
11.2	Reported Animal Effects Acute Toxicity	Oral (rat) LD50 1300mg/kg (calculated) Inhalation (rat) LC50 not determined Skin (rabbit) LD50 not determined
11.3	Skin	May cause skin irritation.
11.4	Eyes	May cause eyes irritation.
11.5	Chronic Toxicity	No information

11.6	Sensitizing	May cause sensitization by skin contact
11.7	Carcinogenicity Information	IARC: Group 4 ACHIH: A5
11.8	Reproductive Effects	No studies or reproductive effects have been carried out with this product.
11.9	Mutagenicity/ Geno-toxicity Information	No mutagenicity studies have been carried out with this product.

12. Ecological Information

No ecological studies have been carried out with this product.

13. Disposal Considerations

13.1	Waste Disposal Method	Disposal of waste and resin should be carried out under the direct supervision of qualified person. For industrial disposal, federal hazardous waste regulations allow open burning of wastes in permitted facilities. Burn in the open in an isolated location in small, shallow piles not over one inch deep. Stay upwind. Do not breathe products of combustion. State or local regulations may be more stringent than federal regulations. For disposal of small quantities, contact state or local environment agencies for advices

14. Transport Information

UN Haz.Class: 8

Un Number: 1760

Packaging Group: 3

15. Regulatory Information

Hazard Label Data:

15.1	Labelling	Labelling according to EEC directives concerning preparations.
15.2	Hazardous Identity	C – Corrosive
15.3	Risk Phrases	R20/ 21/ 22, harmful by inhalation, contact with eyes and skin and if swallowed. R34, Causes burns. R43, may cause sensitization by skin contact

ASTM INTERNATIONAL ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007 SAUDI MADE

15.4	Safety Phrases	S26, in case of contact with eyes, rinse it immediately with plenty of water and contact a physician for medical advices. S36/37/39, wear suitable standardized clothing, impervious hands glove and eye/face protection gear. S45, in case of accident or unwell, contact a physician for medical advices immediately (show label where possible). S61, avoid release to the environment. Refer to special instructions / material safety data sheets.

16. Other Information

Directive 67/548/EEC EU, dangerous materials list.

Directive 91/155/EEC EU, MSDS prepared directive.

The data and advice given apply when the product is used for the stated applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet.

The product should not be used other than for the stated applications without seeking advices from STAR TECHNOLOGIES. If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

ASTM INTERNATIONAL ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007 SAUDI MADE