

SAFETY DATA SHEET (GLASS ARMOR™ 27P RESIN)

SECTION I. IDENTIFICATION

PRODUCT NAME: Glass Armor™ 27P Resin (GA 27P)

CHEMICAL FAMILY: DIGLYCIDYL ETHER BISPHENOL-A & EPOXY NOVOLAC RESINS.

PRODUCT TYPE: LIQUID EPOXY RESIN
CAS#. 25068-38-6, CAS#. 028064-14-4

MANUFACTURER: Bridgeport Chemical
291 West Mc Callen
Sikeston, MO 63801
Phone: 800-676-8265 or 573-472-9700

EMERGENCY CONTACT: (800) 424-9300 CHEMTREC

RECOMMENDED USE: GA 27P IS RECOMMENDED AS A COATING/LINING FOR CORROSION PROTECTION AND LEAK PREVENTION FOR STORAGE TANKS, PROCESS VESSELS AND OTHER CONTAINMENT STRUCTURES

IMPORTANT RESTRICTIONS ON USE: THIS MATERIAL WILL NOT BE SOLD FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT WITH MUCOUS MEMBRANES, ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY IS SPECIFICALLY INTENDED. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, BRIDGEPORT CHEMICAL LLC IS NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE FOR SUCH USES AND ASSUMES NO LIABILITY FOR ANY SUCH USES.

HAZARD STATEMENT: THIS SAFETY DATA SHEET (SDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200. THIS PRODUCT IS CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.

SECTION II. HAZARDOUS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Skin corrosion/irritation	Category 2	H315	Causes skin irritation
Skin sensitization	Category 1B	H317	May cause allergic skin reaction
Serious eye damage/eye irritation	Category 2	H319	Causes serious eye irritation
Chronic aquatic toxicity	Category 2	H411	Toxic to aquatic life with long Lasting effects

LABEL ELEMENTS

Hazard Pictograms:



Signal Word: Warning

Hazard Statements:

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

  1 (800) 676-8265

SAFETY DATA SHEET
(GLASS ARMOR™ 27P RESIN)

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection

P273 Avoid releases to the environment

Do not breath vapors

Do not eat, drink or smoke when using this product

Wash hands thoroughly after handling

P305 + P351 + P338 IF IN EYES – Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P302 +P352 IF ON SKIN – Wash with plenty of soap and water

P391 Collect spillage

P501 Dispose of in accordance with all governmental regulations

Other Hazards – No information available

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE – 100%

THIS PRODUCT IS A PROPRIETARY BLEND MIXTURE

SPECIFIC CHEMICAL NAME: PHENOL 4,4'-(METHYLETHYLIDENE) BISPOLYMER WITH
(CHLOROMETHYL) OXIRANE) – 10%-90%

COMMON NAME: BISPHENOL-A EPOXY RESIN

CAS#. 25068-38-6

EXPOSURE LIMITS:

OSHA PEL - NOT ESTABLISHED

ACGIH TLV - NOT ESTABLISHED

CARCINOGENICITY: THIS CHEMICAL IS NOT CONSIDERED TO BE A CARCINOGENIC
BY NTP., IARC, OR OSHA.

SPECIFIC CHEMICAL NAME: BISPHENOL-F (EPICHLOROHYDRIN TYPE) EPOXY RESIN

COMMON NAME: BISPHENOL-F EPOXY RESIN – 10%-90%

CAS#. 028064-14-4

EXPOSURE LIMITS:

OSHA PEL - NOT ESTABLISHED

ACGIH TLV - NOT ESTABLISHED

CARCINOGENICITY: THIS CHEMICAL IS NOT CONSIDERED TO BE A CARCINOGENIC
BY NTP., IARC, OR OSHA.

SECTION IV. FIRST AID MEASURES

GENERAL PRECAUTIONS FOR RESPONDERS

PROTECTIVE GLOVES: WEAR IMPERVIOUS GLOVES.

EYE PROTECTION: WEAR SPLASH-PROOF CHEMICAL RESISTANT GOGGLES.

RESPIRATORY PROTECTION: USE OSHA, NIOSH APPROVED AMINE ORGANIC CARTRIDGE
VAPOR RESPIRATOR.

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE EQUIPMENT TO PREVENT
EXPOSURE AND PERSONAL CONTACT.

DESCRIPTION OF FIRST AID MEASURES

EYES - FOR EYE CONTACT, IMMEDIATELY FLUSH EYES FOR AT LEAST FIFTEEN MINUTES
WITH RUNNING WATER. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE EYE

 1 (800) 676-8265

GLASS ARMOR™ 27P RESIN (04/2015) PAGE 2 OF 8

SAFETY DATA SHEET
(GLASS ARMOR™ 27P RESIN)

SURFACE AND LIDS WITH WATER. IF PHYSICIAN IS NOT AVAILABLE, FLUSH FOR AN ADDITIONAL FIFTEEN MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

SKIN - FOR SKIN CONTACT, IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES UNDER A SAFETY SHOWER. WASH AFFECTED AREAS THOROUGHLY WITH PLENTY OF WATER AND SOAP FOR AT LEAST FIFTEEN MINUTES. DISCARD OR DECONTAMINATE CLOTHING BEFORE RE-USE, AND DESTROY CONTAMINATED SHOES.

INGESTION - IF SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION.

INHALATION - IF INHALED, REMOVE FROM AREA TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION IF BREATHING IS DIFFICULT, TRANSPORT TO MEDICAL CARE AND, IF AVAILABLE, GIVE SUPPLEMENTAL OXYGEN.

OTHER - PROMPTLY REMOVE CONTAMINATED NON-IMPERVIOUS CLOTHING. WASH BEFORE RE-USE.

MOST IMPORTANT SYMPTOMS AND EFFECTS – ACUTE AND CHRONIC

ADDITIONAL IMPORTANT SYMPTOMS AND EFFECTS ARE DESCRIBED IN SECTION XI: TOXICOLOGICAL INFORMATION.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

THERE IS NO SPECIFIC ANTIDOTE TO EXPOSURE. TREATMENT OF EXPOSURES SHOULD FOCUS ON THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE EXPOSED INDIVIDUAL.

SECTION V. FIRE-FIGHTING MEASURES

FLASHPOINT: > 150 °F.

EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL, AND WATER SPRAY.

SPECIAL FIRE FIGHTING PROCEDURES: USE SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC.

SECTION VI. ACCIDENTAL RELEASE MEASURES

PROTECT PEOPLE: ISOLATE HAZARD AREA AND KEEP UNNECESSARY PEOPLE AWAY.

PROTECT THE ENVIRONMENT: KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATERS, AND SOIL. FOR LARGE SPILLS CONTAIN WITH A DIKE AND EVACUATE UPWIND.

CLEAN-UP PROCEDURES: AVOID ALL PERSONAL CONTACT, VENTILATE AREA, AND ELIMINATE ALL SOURCES OF IGNITION. COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP. USE AN ABSORBENT MATERIAL (SUCH AS SAND OR DRY SOIL) TO PICK-UP RESIDUE AND SHOVEL INTO A CLOSEABLE CONTAINER. FLUSH CONTAMINATED AREA WITH WATER SPRAY.

WASTE DISPOSAL METHODS: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SAFETY DATA SHEET
(GLASS ARMOR™ 27P RESIN)

SECTION VII. HANDLING AND STORAGE

HANDLING AND STORING PRECAUTIONS: WARNING! HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH THE SKIN. MAY CAUSE IRRITATION AND SENSITIZATION. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE VAPOR, MIST, OR SPRAY. GOOD VENTILATION AND PERSONAL HYGIENE ARE ESSENTIAL. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE AWAY FROM FOOD, FOOD CONTAINERS, AND CLOTHING. STORE BELOW 100°F. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

VENTILATION: GOOD GENERAL MECHANICAL VENTILATION AND LOCAL EXHAUST IS REQUIRED.

PROTECTIVE GLOVES: WEAR IMPERVIOUS GLOVES.

EYE PROTECTION: WEAR SPLASH-PROOF CHEMICAL RESISTANT GOGGLES.

RESPIRATORY PROTECTION: USE OSHA, NIOSH APPROVED AMINE ORGANIC CARTRIDGE VAPOR RESPIRATOR.

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE EQUIPMENT TO PREVENT EXPOSURE AND PERSONAL CONTACT.

EXPOSURE LIMITS

CHEMICAL NAME

PHENOL 4,4'-(METHYLETHYLIDENE)
BISPOLYMER WITH (CHLOROMETHYL) OXIRANE)
COMMON NAME: BISPENOL-A EPOXY RESIN
CAS#. 25068-38-6

EXPOSURE LIMITS

OSHA PEL - NOT ESTABLISHED
ACGIH TLV - NOT ESTABLISHED
CARCINOGENICITY: THIS CHEMICAL IS
NOT CONSIDERED TO BE A
CARCINOGENIC BY NTP., IARC, OR
OSHA.

CHEMICAL NAME

BISPENOL-F (EPICHLOROHYDRIN TYPE)
EPOXY RESIN
COMMON NAME: BISPENOL-F EPOXY RESIN
CAS#. 028064-14-4

EXPOSURE LIMITS

OSHA PEL - NOT ESTABLISHED
ACGIH TLV - NOT ESTABLISHED
CARCINOGENICITY: THIS CHEMICAL IS
NOT CONSIDERED TO BE A
CARCINOGENIC BY NTP., IARC, OR
OSHA.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: BLUE, THIXOTROPIC LIQUID, MODERATE ODOR.

ODOR THRESHOLD: NO TEST DATA AVAILABLE

DECOMPOSITION TEMP: > 150 °F

PERCENT VOLATILE: > 0

SOLUBILITY IN WATER: INSOLUBLE

DENSITY: > 12.5 POUNDS PER GALLON

MATERIAL pH: NOT APPLICABLE

MELTING POINT: NOT APPLICABLE

FREEZING POINT: NO TEST DATA AVAILABLE

BOILING POINT: >150 °F

EVAPORATION RATE: NO TEST DATA AVAILABLE

SAFETY DATA SHEET
(GLASS ARMOR™ 27P RESIN)

VAPOR DENSITY: NOT APPLICABLE

SECTION X. STABILITY AND REACTIVITY

STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS AND ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND/OR CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: MASSES OF 1LB OR MORE PLUS AMINES WILL CAUSE AN IRREVERSIBLE POLYMERIZATION WITH CONSIDERABLE HEAT BUILD UP. STRONG ACIDS OR BASES.

SECTION XI. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

INGESTION – VERY LOW TOXICITY IF SWALLOWED. SMALL AMOUNTS SWALLOWED INCIDENTALLY ARE UNLIKELY TO CAUSE INJURY. SWALLOWING LARGE AMOUNTS MAY CAUSE INJURY.

ASPIRATION HAZARD – UNLIKELY TO BE AN ASPIRATION HAZARD

SKIN ABSORPTION – PROLONGED SKIN CONTACT IS UNLIKELY TO PRODUCE TOXIC EFFECTS DUE TO ABSORPTION

INHALATION – AT ROOM TEMPERATURE, EXPOSURE TO VAPOR IS MINIMAL DUE TO LOW VOLATILITY. WHEN HEATED, VAPORS, MISTS OR AEROSOLS MAY CAUSE RESPIRATORY IRRITATION

EYE DAMAGE/IRRITATION – MAY CAUSE MODERATE EYE IRRITATION

SKIN CORROSION/IRRITATION – BRIEF CONTACT MAY CAUSE LOCAL REDNESS AND IRRITATION

SENSITIZATION – MATERIAL HAS CAUSED ALLERGIC SKIN REACTIONS IN HUMANS

REPEATED DOSE – ONLY SKIN SENSITIZATION IS AFFECTED BY REPEATED DOSE EXPOSURES

CHRONIC TOXICITY AND CARCINOGENICITY – NOT A CARCINOGEN

DEVELOPMENTAL TOXICITY – NONE IDENTIFIED

REPRODUCTIVE TOXICITY – NONE IDENTIFIED

GENETIC TOXICITY – ANIMAL STUDIES WERE NEGATIVE

PRIMARY ROUTES OF EXPOSURE MEASURES OF TOXICITY:

ORAL: LD50 RATS > 2000 MG/KG

DERMAL: LD50 RABBITS > 2000 MG/KG

IRRITATION:

SKIN: (RABBIT) MODERATE

EYE: (RABBIT) MODERATE

INHALATION: NO TEST DATA AVAILABLE

SENSITIZATION: MODERATE SENSITIZER

INHALATION: MAY CAUSE SENSITIZATION.

EFFECTS OF OVEREXPOSURE: PRIMARY SKIN/EYE/RESPIRATORY IRRITATION & SENSITIZER, HEADACHES, MAY CAUSE VERTIGO, NAUSEA, AND VOMITING.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: ASTHMA, CHRONIC RESPIRATORY DISEASE, SKIN, AND EYE CONDITIONS.

 1 (800) 676-8265

GLASS ARMOR™ 27P RESIN (04/2015) PAGE 5 OF 8

SAFETY DATA SHEET
(GLASS ARMOR™ 27P RESIN)

SECTION XII. ECOLOGICAL INFORMATION

TOXICITY

MATERIAL IS TOXIC TO AQUATIC ORGANISMS (LC50/EC50/IC50 BETWEEN 1 AND 10 mg/L IN THE MOST SENSITIVE SPECIES).

PERSISTENCE AND DEGRADABILITY

OECD TEST GUIDELINES INDICATE THAT THIS MATERIAL CANNOT BE CONSIDERED READILY BIODEGRADABLE. IT SHOULD BE NOTED THAT THE TEST RESULTS DO NOT NECESSARILY MEAN THAT THE MATERIAL IS NOT BIODEGRADABLE UNDER ENVIRONMENTAL CONDITIONS.

BIOACCUMULATION POTENTIAL

NO RELEVANT DATA FOUND

MOBILITY IN SOIL

MOBILITY IN SOIL IS LOW

RESULTS OF PBT AND vPvB ASSESSMENT

NO DATA AVAILABLE

OTHER ADVERSE EFFECTS

NO DATA AVAILABLE

SECTION XIII. DISPOSAL CONSIDERATIONS

THIS PRODUCT SHOULD BE TREATED AS A HAZARDOUS WASTE IN ITS UNUSED AND UNCONTAMINATED STATE. ALL DISPOSAL PRACTICES MUST BE IN ACCORDANCE WITH ALL GOVERNMENTAL REGULATIONS GOVERNING HAZARDOUS WASTE. USED, CONTAMINATED OR RESIDUAL MATERIAL SHOULD BE EVALUATED PRIOR TO DISPOSAL. DO NOT DUMP INTO SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.

SECTION XIV. TRANSPORT INFORMATION

DOT

DOT CLASS: NOT REGULATED, NON HAZARDOUS

DOT NUMBER: N/A

ADR/RID

UN NUMBER – UN3082

UN PROPER SHIPPING NAME – ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s. (EPOXY RESIN)

TRANSPORT HAZARD CLASS – CLASS 9

PACKING GROUP – PG III

ENVIRONMENTALLY HAZARDS – ENVIRONMENTALLY HAZARDOUS

SPECIAL PRECAUTIONS – HAZARD IDENTIFICATION 90

ADNR/AND

SAFETY DATA SHEET
(GLASS ARMOR™ 27P RESIN)

UN NUMBER – UN3082
UN PROPER SHIPPING NAME – ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s.
(EPOXY RESIN)
TRANSPORT HAZARD CLASS – CLASS 9
PACKING GROUP – PG III
ENVIRONMENTALLY HAZARDS – ENVIRONMENTALLY HAZARDOUS
SPECIAL PRECAUTIONS – NO DATA AVAILABLE

IMDG

UN NUMBER – UN3082
UN PROPER SHIPPING NAME – ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s.
(EPOXY RESIN)
TRANSPORT HAZARD CLASS – CLASS 9
PACKING GROUP – PG III
ENVIRONMENTALLY HAZARDS – MARINE POLLUTANT
SPECIAL PRECAUTIONS – EMS NUMBER: F-A,S-F
TRANSPORT IN BULK (MARPOL/IBC) – NOT APPLICABLE

ICAO/IATA

UN NUMBER – UN3082
UN PROPER SHIPPING NAME – ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, n.o.s.
(EPOXY RESIN)
TRANSPORT HAZARD CLASS – CLASS 9
PACKING GROUP – PG III
ENVIRONMENTALLY HAZARDS – ENVIRONMENTALLY HAZARDOUS
SPECIAL PRECAUTIONS – NO DATA AVAILABLE

SECTION XV. REGULATORY INFORMATION

RCRA STATUS: NOT A HAZARDOUS WASTE UNDER RCRA (40 CFR 261)

CERCLA STATUS: SARA/TITLE III - TOXIC CHEMICAL LIST: THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL FOR ROUTINE ANNUAL TOXIC CHEMICAL RELEASE REPORTING" UNDER SECTION 313 (40 CFR 372) CAS #. (BISPHENOL-A), LESS THAN 2%.

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

TSCA INVENTORY STATUS: ALL COMPONENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY OR ARE EXEMPT FROM TSCA INVENTORY REQUIREMENTS UNDER 40 CFR 720.30

EUROPEAN INVENTORY OF EXISTING COMERCIAL CHEMICAL SUBSTANCES (EINECS): ALL COMPONENTS OF THIS PRODUCT ARE ON THE EINECS INVENTORY OR ARE EXEMPT FROM EINECS INVENTORY REQUIREMENTS

CANADA HMIS CODE:

HEALTH: 2 FIRE: 1 REACTIVITY: 0

**SAFETY DATA SHEET
(GLASS ARMOR™ 27P RESIN)**

SECTION XVI. OTHER INFORMATION

ISSUE DATE: 2015/04/21 REPLACES MSDS 2003/07/01

FOR FURTHER INFORMATION, PLEASE CONTACT PRODUCT SAFETY DIRECTOR.

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. ALL CHEMICALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST. FINAL DETERMINATION OF SUITABILITY OF THE CHEMICAL IS THE SOLE RESPONSIBILITY OF THE USER. USERS OF ANY CHEMICAL SHOULD SATISFY THEMSELVES THAT THE CONDITIONS AND METHODS OF USE ASSURE THAT THE CHEMICAL IS USED SAFELY. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN, OR TO THE CHEMICAL TO WHICH THE USER REFERS.