



SAFETY DATA SHEET (GLASS ARMOR™27P ACTIVATOR)

SECTION I. INDENTIFICATION

PRODUCT NAME: Glass Armor [™] 27P-125 Activator (GA27-125)

CHEMICAL FAMILY: FORMULATED MODIFIED MIXED AMINES

PRODUCT TYPE: EPOXY HARDNER

Proprietary Mixed Amine Compound

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: GA27P- 125 ACTIVATOR IS RECOMMENDED FOR USE AS A CURING AGENT FOR GLASS ARMOR EPOXY COATING MATERIALS.

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 (MSDS) 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

Harmful if swallowed	Category 4	H302	Harmful if swallowed
Serious skin burns/eye damage	Category 1C	H314	Causes serious skin burns and eye damage
Skin sensitization	Category 1B	H317	May cause allergic skin reaction
Serious eye damage	Category 1	H318	Causes serious eye damage
Harmful if inhaled	Category 4	H332	Harmful if inhaled
Drowsiness/dizziness	Category 3	H336	May cause drowsiness or dizziness
Central nervous system (CNS) effects	Category 2	H373	May cause damage to the central nervous system through prolonged or repeat exposure
Chronic aquatic toxicity	Category 2	H411	Toxic to aquatic life with long Lasting effects

LABEL ELEMENTS

Hazard Pictograms:



Signal Word: Danger Hazard Statements:

H302 Harmful if swallowed

H314 Causes serious skin burns and eye damage

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H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H332 Harmful if inhaled

H336 May cause drowsiness or dizziness

H373 May cause damage to the central nervous system, liver or kidney through prolonged or repeat exposure

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements:

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

Do not breathe vapors

Do not eat, drink or smoke when using this product

Wash hands thoroughly after handling

P273 Avoid releases to the environment

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 IDENTITY OF THIS COMPONENT WITHHELD AS TRADE SECRET:

GENERIC NAME: MODIFIED ALIPHATIC POLYAMINE

CAS#: CONFIDENTIAL - 10%-90%

EXPOSURE LIMITS:

OSHA PEL - NOT ESTABLISHED ACGIH TLV - NOT ESTABLISHED

CARCINOGENICITY: THIS CHEMICAL HAS NOT BEEN REVIEWED FOR CARCINOGENICITY BY

NTP., IARC, OR OSHA.

SPECIFIC IDENTITY OF THIS COMPONENT WITHHELD TRADE SECRET:

GENERIC: CYCLOALIPHATIC AMINE CAS #: CONFIDENTIAL - 10%-90%

EXPOSURE LIMITS:

OSHA PEL - NOT ESTABLISHED ACGIH TLV - NOT ESTABLISHED

CARCINOGENICITY: THIS CHEMICAL HAS NOT BEEN REVIEWED FOR CARCINOGENICITY 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

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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 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: > 105 °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.

SECTION VII. HANDLING AND STORAGE

HANDLING AND STORING PRECAUTIONS: WARNING! HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH THE SKIN. MAY CAUSE IRRITATION, CHEMICAL BURNS 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 EXPOSURE LIMITS

GENERIC NAME: OSHA PEL - NOT ESTABLISHED
MODIFIED ALIPHATIC POLYAMINE ACGIH TLV - NOT ESTABLISHED

CAS#. Proprietary

CARCINOGENICITY: THIS CHEMICAL IS NOT CONSIDERED TO BE A CARCINOGENIC BY

NTP., IARC, OR OSHA.

GENERIC NAME: OSHA PEL - NOT ESTABLISHED CYCLOALIPHATIC AMINE ACGIH TLV - NOT ESTABLISHED

CAS#. Proprietary

CARCINOGENICITY: THIS CHEMICAL IS NOT CONSIDERED TO BE A CARCINOGENIC BY

NTP., IARC, OR OSHA.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: WHITE, HIGH THIXOTROPIC LIQUID, AMINE ODOR.

ODOR THRESHOLD: NO TEST DATA AVAILABLE

DECOMPOSITION TEMP: > 200 °F

PERCENT VOLATILE: 1%

SOLUBILITY IN WATER: PRACTICALLY INSOLUBLE

DENSITY: >10.8 POUNDS PER GALLON

MATERIAL pH: 8-11 Calculated
MELTING POINT: NOT APPLICABLE

FREEZING POINT: NO TEST DATA AVAILABLE

BOILING POINT: >200 °C Literature

EVAPORATION RATE: NO TEST DATA AVAILABLE

VAPOR DENSITY: NOT APPLICABLE

SECTION X. STABILITY AND REACTIVITY

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STABILITY: STABLE

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

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND/OR CARBON DIOXIDE, ANILINE, ALDEHYDES AND NITROGEN OXIDES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION XI. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

INGESTION – LOW TOXICITY IF SWALLOWED. SWALLOWING MAY RESULT IN GASTROINTESTINAL IRRITATION OR ULCERATION. SWALLOWING MAY RESULT IN BURNS OF THE MOUTH AND THROAT.

ASPIRATION HAZARD – UNLIKELY TO BE AN ASPIRATION HAZARD BASED UPON PHYSICAL PROPERTIES

SKIN ABSORPTION – PROLONGED SKIN CONTACT MAY PRODUCE TOXIC EFFECTS DUE TO ABSORPTION

INHALATION – EXCESSIVE EXPOSURE MAY CAUSE IRRITATION TO THE UPPER RESPIRATORY TRACT, CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS AND DROWSINESS, PROGRESSING TO INCOORDINATION AND UNCONSCIOUSNESS. PROLONGED EXCESSIVE EXPOSURE MAY CAUSE SERIOUS ADVERSE EFFECTS, EVEN DEATH.

EYE DAMAGE/IRRITATION – MAY CAUSE SEVERE EYE IRRITATION WITH CORNEAL INJURY WHICH CAN RESULT IN PERMANENT IMPAIRMENT OF VISION OR BLINDNESS. CHEMICAL BURNS OF THE EYE ARE POSSIBLE.

SKIN CORROSION/IRRITATION – BRIEF CONTACT MAY CAUSE SKIN BURNS. SYMPTOMS MAY INCLUDE PAIN, SEVERE LOCAL REDNESS AND TISSUE DAMAGE.

SENSITIZATION - MATERIAL HAS CAUSED ALLERGIC SKIN REACTIONS IN HUMANS

REPEATED DOSE – IN ANIMALS, REPEATED DOSE EXPOSURES HAVE BEEN REPORTED FOR THE CENTRAL NERVOUS SYSTEM, MUSCLES, THYMUS, URINARY TRACT, RESPIRATORY TRACT, GASTROINTESTINAL TRACT, KIDNEY AND LIVER.

CHRONIC TOXICITY AND CARCINOGENICITY - NOT A CARCINOGEN

DEVELOPMENTAL TOXICITY – NONE IDENTIFIED **REPRODUCTIVE TOXICITY** – NONE IDENTIFIED

GENETIC TOXICITY – NONE IDENTIFIED

PRIMARY ROUTES OF EXPOSURE MEASURES OF TOXICITY:

ORAL: LD50 RATS 2600 MG/KG (COMPONENTS) **DERMAL:** LD50 RATS 4000 MG/KG (COMPONENTS)

IRRITATION:

SKIN: EXTREME CORROSIVE **EYE:** REGARD AS CORROSIVE

INHALATION: NO TEST DATA AVAILABLE

SENSITIZATION: POTENTIAL SENSITIZER

INHALATION: HARMFUL IF INHALED. POSSIBLE RESPIRATORY IRRITANT.

EFFECTS OF OVEREXPOSURE: OVEREXPOSURE TO THIS MATERIAL CAN RESULT IN SEVERE SKIN, EYE, AND RESPIRATORY IRRITATION, AND PROLONGED CONTACT WILL RESULT IN CHEMICAL BURN. IT IS A POTENT SKIN SENSITIZER IN ANIMAL STUDIES. COMPONENTS IN THIS PRODUCT CAN CAUSE CNS DEPRESSION, CONVULSIONS, DROWSINESS, SLURRED SPEECH, STUPOR, HEADACHES, DIZZINESS, NAUSEA, AND DEPRESSION OF THE RESPIRATORY CENTER. ALSO LIVER AND KIDNEY EFFECTS HAVE BEEN REPORTED FOR HUMANS ALONG WITH EFFECTS ON THE

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BLOOD ESPECIALLY CAUSING ANEMIA.

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

SECTION XII. ECOLOGICAL INFORMATION

TOXICITY

MATERIAL IS TOXIC TO AQUATIC ORGANISMS (LC50/EC50/IC50 BETWEEN 10 AND 100 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

BIOACCUMULATION POTENTIAL IS LOW

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: CAUSTIC ALKALI LIQUID, CORROSIVE

DOT NUMBER: UN 1719

ADR/RID

UN NUMBER – UN 1719

UN PROPER SHIPPING NAME – CAUSTIC ALKALI LIQUID, n.o.s.

TRANSPORT HAZARD CLASS – CLASS 8

PACKING GROUP - PG III

ENVIRONMENTALLY HAZARDS – NOT CONSIDERED ENVIRONMENTALLY HAZARDOUS **SPECIAL PRECAUTIONS** – HAZARD IDENTIFICATION 80

ADNR/AND

UN NUMBER – UN 1719

UN PROPER SHIPPING NAME - CAUSTIC ALKALI LIQUID, n.o.s.

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TRANSPORT HAZARD CLASS - CLASS 8

PACKING GROUP - PG III

ENVIRONMENTALLY HAZARDS – NOT CONSIDERED ENVIRONMENTALLY HAZARDOUS **SPECIAL PRECAUTIONS** – NO DATA AVAILABLE

IMDG

UN NUMBER – UN 1719

UN PROPER SHIPPING NAME - CAUSTIC ALKALI LIQUID, n.o.s.

TRANSPORT HAZARD CLASS - CLASS 8

PACKING GROUP - PG III

ENVIRONMENTALLY HAZARDS – NOT CONSIDERED ENVIRONMENTALLY HAZARDOUS

SPECIAL PRECAUTIONS – EMS NUMBER: F-A,S-F

TRANSPORT IN BULK (MARPOL/IBC) - NOT APPLICABLE

ICAO/IATA

UN NUMBER – UN 1719

UN PROPER SHIPPING NAME - CAUSTIC ALKALI LIQUID, n.o.s.

TRANSPORT HAZARD CLASS - CLASS 8

PACKING GROUP - PG III

ENVIRONMENTALLY HAZARDS – NOT CONSIDERED 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%.

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: 3 FIRE: 1 REACTIVITY: 0

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

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SECTION XVI. OTHER INFORMATION

ISSUE DATE: 2015/04/21 REPLACES MSDS 2003/09/11

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.