



Safety Data Sheet

Section 1 - Identification of the Substance/Mixture and of the Company

Date of SDS Revision: August 3rd, 2018

1.1 Product identifier EP517 - EP521 Black, White, Gray, Tan and Clear

Product Name: Moisture Block Epoxy Primer - B Side [Hardener]

Description: Cycloaliphatic Amine Curing Agent

Manufacturer/Supplier: Classic Coatings Systems

1.2 Relevant identified uses of the preparation and uses identified against

Use: Hardener for epoxy coatings
For professional/industrial use only.

1.3 Details of the supplier of the safety data sheet

Classic Coatings Systems
255 Citation Circle
Corona, Ca 92880

Telephone: (951) 279-2600 Fax: (714) 276-9696

Web: www.ClassicCoatingsSystems.com

Contact: Carlos@ClassicCoatingsSystems.com

1.4 Emergency Response Service:
(800) 535-5053

Section 2 - Hazards Identification

2.1 Classification of the substance/mixture

2.1.1 Classification according to OSHA 29CFR1910.1200 and EU (EC) 1272/2008

Acute oral toxicity cat. 4	H302
Acute dermal toxicity cat. 5	H313
Skin irritation cat. 2	H315
Eye damage cat. 1	H318
Skin sensitization cat. 1	H317
STOT-se/respiratory cat. 3	H335
STOT-re, cat.2	H373
Aquatic toxicity, chronic cat. 3	H412

2.2 Labeling elements

2.2.1 Labeling according to OSHA 29CFR1910.1200 and EU (EC) 1272/2008

Signal Word: Danger

Hazard pictogram:



Hazard statements

- H302 Harmful if swallowed.
- H313 May be harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P261 Avoid breathing mist/vapors/spray.
- P264 Wash hands and skin contact areas thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- 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.
- P310 Immediately call a POISON CENTER or doctor.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P312 Call a POISON CENTER or doctor if you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical attention.
- P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P362 Take off contaminated clothing and wash before reuse.
- P501 Dispose of contents/container through a waste management company authorized by the local government.

2.3 OSHA GHS classification

This product is classified as hazardous as defined within the GHS OSHA Hazard Communication Standard 29CFR1910.1200.

Section 3 - Composition / Information on Ingredients

3.1 Substances

N/A

3.2 Mixtures

Component

Styrenated phenol
CAS No. 61788-44-1
EINECS No. 262-975-0
GHS/CLP: Skin irrit. 2 - H315; Eye irrit. 2 - H319; STOT-re/resp. irrit. 3 - H335

Concentration

40-50%

Triethylenetetramine CAS No. 112-24-3 EINECS No. 203-950-6 GHS/CLP: Acute tox. (oral) 4 - H302; Acute tox. (dermal) 4 - H312; Skin corros. 1B - H314; Eye dam. 1 - H318; Skin sens. 1 - H317; Aquatic acute 3 - H402; Aquatic chronic 3 - H412	20-30%
4,4'-Methylenebis(cyclohexylamine) CAS No. 1761-71-3 EINECS No. 217-168-8 GHS/CLP: Acute tox. (oral) 4 - H302; Skin corros. 1A - H314; Skin sens. 1 - H317; STOT-re 2 - H373; Aquatic chronic 2 - H411	15-30%
Salicylic acid CAS No. 69-72-7 EINECS No. 200-712-3 GHS/CLP: Acute tox. (oral) 4 - H302; Skin irrit. 3 - H316; Eye damage 1 - H318	1-5%

Section 4 - First Aid Measures

4.1 Description of First Aid measures

General advice: consult a physician; show this SDS to doctor in attendance.

In the event of skin contact: Rinse immediately with plenty of water; remove contaminated clothing; wash thoroughly with soap and water for at least 15 minutes. If irritation, rash or other adverse effects develop, get medical attention immediately.

In the event of eye contact: Bathe the eye with running water for at least 15 minutes, lifting upper and lower eyelids. Get medical attention immediately.

In the event of swallowing: Do NOT induce vomiting unless advised by a physician. Rinse out mouth with water. Call nearest Poison Control Center or physician immediately.

In the event of exposure by inhalation: Move person to fresh air and keep at rest in a position comfortable for breathing; if breathing is irregular, provide artificial respiration; if there are breathing difficulties, administer oxygen; get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed and if inhaled; can cause severe skin burns and eye damage; sensitizer.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Eye wash stations and emergency showers should be available.

Section 5 - Fire Fighting Measures

5.1 Extinguishing media

Water fog, dry chemical, CO₂, dry sand, limestone powder, alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flashback. Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors. Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide, nitrogen oxides; the formation of hydrocarbon fragments is possible in the initial stages of fire (especially in between 400°C and 700°C); smoke may contain particles of the original material as well.

5.3 Advice for fire fighters: Use protective fire fighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Move containers from fire area if you do it without risk. Dike fire control water for later disposal; prevent runoff from entering drains. Cool fire exposed containers with water stream. Do not use high volume water jet on the fire as this may spread the area of the fire.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Isolate area; ensure adequate ventilation; remove all sources of ignition; use appropriate personal protection equipment; avoid breathing mist, vapors, spray; avoid contact with skin, eyes and clothing; keep unnecessary and unprotected personnel from entering the involved area. Local authorities should be advised if significant spillages cannot be contained.

6.2 Environmental precautions

Halt the flow of material as soon as practical using appropriate barriers; turn containers leak-side up to stop the escape of liquid. This material is a water pollutant and should be prevented from contaminating soil or from entering sewerage and drainage systems and bodies of water.

6.3 Methods and material for containment and cleaning up

Soak up with sand, earth, diatomaceous earth or other suitable inert absorbent material; collect into suitable waste disposal containers. Reuse uncontaminated material when possible. Wash spillage site with large amounts of water. Dispose of in accordance with applicable local and federal environmental control laws and regulations.

6.4 Reference to other sections

For more information on exposure controls, personal protection and disposal, review data in section 8 and section 13 of this SDS.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Prevent inhalation of vapor, ingestion, and contact with skin, eyes and clothing. Keep containers closed when not in use. Precautions apply to empty containers as well. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Personal protective equipment must be worn during maintenance or repair of mixers, reactors or other equipment containing the material.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry area with adequate ventilation. Store away from foodstuffs and all incompatible material. Keep container tightly closed when not in use.

Incompatibilities: Do not store together with strong oxidizing agents.

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters

Occupational exposure limits: No OSHA PEL assigned
AIHA WEEL: 6 mg/m³ (1 ppm) (TETA)

8.1.2 Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference can be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents for the determination of hazardous substances.

8.2 Exposure Controls:

Follow good industrial workplace practices; do not eat, drink or smoke while handling; wash hands before breaks and at end of workshift; follow recommendations in this SDS.

8.2.1 Appropriate engineering controls

Ventilation through local exhaust if general ventilation is inadequate. Ten air changes per hour are generally recommended.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye/face protection

Wear chemical safety goggles and/or face shield to prevent eye contact. Refer to OSHA Standard 29CFR1910.133 and European Standard EN166.

8.2.2.2 Skin protection

Wear impervious clothing as necessary to protect against product contact. Necessity for boots, apron, face shield, etc. will be dependent on any hazards presented in the work process. Refer to CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear.

8.2.2.3 Respiratory protection

If ventilation is inadequate or if irritation or other symptoms are experienced, wear a NIOSH/MHSA approved respirator with organic vapor cartridge. Respirator use should follow the guidelines of an established respiratory protection program in compliance with 29CFR1910.134.

8.2.2.4 Hand protection

Use suitable impervious neoprene or nitrile rubber gloves. When prolonged or frequently repeated contact may occur, glove material should have a breakthrough time that exceeds 480 minutes (breakthrough rating = 6); when only brief contact is expected, a glove with a lesser breakthrough rating (rating 2 = >30 minutes) may be suitable. Note the requirements of Standard EN 374.

Other Protective Equipment: The type and degree of personal protective equipment appropriate will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

8.3 Environmental exposure controls

Observe all precautions to prevent contamination of soil and waterways.

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

9.1.1 General information:

Appearance: Liquid

Color: Amber

Type of Odor: Mild amine-like

Odor Threshold: No data available

9.1.2 Important health, safety and environmental information:

Boiling Point: >100°C (>212°F)

Melting Point: No data available

Flammability Classification: Combustible III B

Flash Point: >118°C (>244°F) (cc)

Autoignition Temperature: >300°C (>572°F)

Decomposition Temperature: No data available

Flammability Limits (lower/upper): LEL: 0.6% UEL: 6.4%

Vapor Pressure: Not determined

Vapor Density (Air=1): >1

Evaporation Rate (BuAc=1): <1

Octanol/Water Partition Coefficient (log P_{ow}): Not determined

Specific Gravity: 1.04

Bulk Density: 8.67 lbs/gal

Water Solubility: Partially soluble

pH: 11.3

Viscosity: 1300 cP @ 25°C

Explosive Properties: Not explosive

Oxidizing Properties: Not determined

Molecular Formula: (mixture)

Section 10 - Stability and Reactivity

10.1 Stability and Reactivity

10.1 Reactivity

No dangerous reaction is known under normal use and storage conditions.

10.2 Stability

Stable under normal use and storage conditions.

10.3 Possibility of hazardous reactions

Mixtures with strongly acidic materials may produce an exothermic reaction.

10.4 Conditions to avoid

Avoid elevated temperatures and sources of ignition.

10.5 Incompatible materials

Acids, oxidizing agents, epoxies, isocyanates.

10.6 Hazardous decomposition products

Thermal decomposition will generate carbon monoxide, carbon dioxide and nitrogen oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Acute Oral Toxicity: LD50(rat): 1051 mg/kg (ATE)

Acute Dermal Toxicity: LD50(rabbit): 2654 mg/kg (ATE)

Acute Inhalation Toxicity: No data available

Skin Corrosion/Irritation: Rabbit/skin: Irritating

Serious Eye Damage/Irritation: Rabbit/eye: Corrosive, causes serious eye damage
Skin Sensitization (guinea pig): Sensitizer
Germ Cell Mutagenicity: Not classified as mutagenic
Carcinogenicity: Not classified as carcinogenic. Not listed by OSHA/NTP/IARC.
Reproductive Toxicity: Not classified as a reproductive toxicant
Specific Target Organ Toxicity - single exposure (STOT-se): Target organ: respiratory system: local irritation of the mucous membranes; respiratory disorders.
Specific Target Organ Toxicity - repeated exposure (STOT-re): May cause damage to the liver and skeletal muscles through prolonged or repeated oral exposure.
Aspiration Hazard: Aspiration occurring while vomiting may cause lung damage.

Potential Health Effects:

Skin Contact: May cause irritation, itching, reddening, inflammation; may be absorbed through the skin; may cause an allergic reaction.

Eye Contact: Corrosive; vapors are irritating and may cause irritation, tearing, redness; contact may cause severe burns and permanent eye damage, even blindness

Ingestion: Harmful if swallowed; may cause severe and permanent damage to mouth, throat and stomach; may lead to perforation of the intestine. Aspiration occurring while vomiting may cause lung damage.

Inhalation: May cause irritation of the respiratory tract. May cause nose, throat and/or lung irritation; there may be coughing, wheezing, difficulty in breathing, shortness of breath.

Chronic Health Effects:

Skin sensitizer; once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. After repeated high-dose oral exposure the substance causes adverse effects to the liver, kidneys.

Additional Data:

RTECS No. GX1530000 (PACM)

RTECS No. YE6650000 (Triethylenetetramine)

RTECS No. VO0525000 (Salicylic acid)

Section 12 - Ecological Information

12.1 Toxicity

12.1.1 Acute/prolonged toxicity to fish

LC50(freshwater fish)(96-hr): 105 mg/l (ATE)

12.1.2 Acute/prolonged toxicity to aquatic invertebrates

EC50(Daphnia magna)(48-hr): 23 mg/l (ATE)

12.1.3 Acute/prolonged toxicity to aquatic plants

EC50(algae)(72-hr): 52 mg/l (ATE)

12.1.4 Toxicity to bacteria, to soil dwelling organisms and to terrestrial plants

No data available

12.1.5 Chronic toxicity to aquatic organisms

Long lasting adverse effects to aquatic organisms.

12.1.6 General effect

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Not readily biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available; do not allow product to enter soil/subsoil.

12.5 Results of PBT and vPvB assessment (EC reg. 453/2010)

Product not classified as Persistent, Bioaccumulative and Toxic
Product not classified as very Persistent or very Bioaccumulative

12.6 German WGK classification

WGK = 1 (self-assessment)

12.7 Other adverse effects

Neutralization may be required before discharging to wastewater treatment plants.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Disposal: Do not dump to ground, sewers or watercourses. Incinerate or otherwise dispose of in compliance with all applicable federal, state and local environmental control laws and regulations. Waste characterization according to RCRA guidelines and compliance with applicable laws are the responsibility solely of the waste generator.

Container Disposal: Containers should be drained of all residual product prior to disposal.

Section 14 - Transport Information

14.1 Shipping description

DOT: Not regulated as hazardous for transport

IMDG: Not regulated as hazardous for transport

IATA: Not regulated as hazardous for transport

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Title III Section 311/312 (40CFR370): Acute health hazard, chronic health hazard

SARA Title III Section 313 (40CFR372): No reportable components

CERCLA Status (40CFR302): No reportable components

(Release of a hazardous substance into the environment in an amount that equals or exceeds its reportable quantity (RQ) requires notification to the National Response Center at 800-424-8802.)

RCRA Status (40CFR261): Not listed

OSHA/NTP/IARC Carcinogen Status: Not listed

TSCA Inventory Status: Reported/included

Canadian DSL Status: Reported/included

Canadian WHMIS Status: D2B, E

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:

None known to be in the product at levels requiring a warning.

REACH Annex XIV (SVHC)

No listed components

REACH Annex XVII (Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles)

No listed components

REACH Status (EC 1907/2006): This material has been registered, pre-registered or is otherwise exempted from registration under the Registration, Evaluation and Authorization of Chemical Substances.

Chemical safety assessment

Not available

Section 16 - Other Information

HMIS ratings:

Health:	3
Flammability:	1
Reactivity:	0

(Personal protective equipment selection is best assigned by the user after performing a hazard assessment on the product as it is to be used in the specific work process.)

National chemical inventories

All components of this product are listed on the following chemical substance inventories:

TSCA (USA)
DSL (Canada)
EINECS (Europe)
ENCS (Japan)
ECL (Korea)
AICS (Australia)
PICCS (Philippines)
IECSC (China)
NZIoC (New Zealand)

Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists
ADR International carriage of dangerous goods by Road
AICS Australian Inventory of Chemical Substances
AIHA American Industrial Hygiene Association
ATE Acute toxicity estimate
BfR Bundesinstitut für Risikobewertung recommendations for food contact materials
BCF Bioconcentration Factor
CERCLA Comprehensive Environmental Response, Compensation and Liability Act
CLP Classification, Labeling and Packaging regulation
DOT Department of Transportation
DSL Domestic Substances List
EINECS European Inventory of Existing Chemical Substances

ECL	Existing Chemicals List (Korea)
ENCS	Existing and New Chemical Substances Inventory (Japan)
EN 689	Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy
ERG	Emergency Response Guide
GHS	Globally Harmonized System
HMIS	Hazardous Materials Information System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods
LD50	Lethal dose to 50% of test animal population
MAK	Maximale Arbeitsplatz Konzentration
NOAEL	No observable adverse effect level
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent and Very Bioaccumulative
PEL	Permissible exposure limit
PICCS	Philippine Inventory of Commercial Chemical Substances
PNEC	Predicted No Effect Concentration
REACH	Registration, evaluation and authorization of chemical substances
RID	International carriage of dangerous goods by Rail
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
SVHC	Substance of Very High Concern
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
VOC	Volatile organic compound
WEEL	Workplace Environmental Exposure Level
WGK	Wassergefährdungsklasse (Water Hazard Class)
WHMIS	Workplace Hazardous Material Identification System

THE INFORMATION OR RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON INFORMATION OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE AND ARE PROPRIETARY AND ARE FURNISHED SOLELY FOR THE USE OF OUR CUSTOMERS. SINCE IT IS IMPOSSIBLE FOR US TO DETERMINE THE PRECISE CONDITIONS UNDER WHICH OUR PRODUCTS WILL BE USED, NEITHER CLASSIC COATINGS SYSTEMS NOR ITS AFFILIATES CAN ACCEPT RESPONSIBILITY FOR LOSS, INJURY OR OTHER DAMAGES RESULTING FROM THE USE OF THE PRODUCT OR THIS OR ANY OTHER INFORMATION PROVIDED BY US. USERS ARE ADVISED TO MAKE THEIR OWN TESTS TO DETERMINE THE SAFETY, SUITABILITY, AND RELEVANCE OF FEDERAL AND LOCAL LAW TO THE PRODUCT AS IT IS TO BE USED BY THEM. THEREFORE NO GUARANTEE OF ANY KIND EXPRESSED OR IMPLIED, INCLUDING THOSE OF FITNESS OR MERCHANTABILITY, ARE MADE BY CLASSIC COATINGS SYSTEMS OR ITS AFFILIATES WITH REGARD TO ANY OF THEIR PRODUCTS.

END OF SDS