SAFETY DATA SHEET

Revised: 05/25/2018

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

1.1 Product identifier: **CE500**

Product Name: **2 Part A&B 100% Solid Epoxy Clear - PART A**
Manufacturer/Supplier: Classic Coatings Systems

1.2 Relevant identified uses of the preparation and uses identified against Use:

Resin for coatings and adhesives

For professional/industrial use only.

1.3 Details of the supplier of the safety data sheet

Classic Coatings Systems
255 Citation Cir.
Corona, CA 92880

Telephone: 714-720-6954
Web: classiccoatingssystems.com
Contact: Carlos Casanola

1.4 Emergency telephone number
Hazmat Service: (800) 373-7542

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

Skin irritation, cat. 2	H315
Skin sensitization, cat. 1	H317
Eye irritation, cat. 2	H319
Aquatic chronic, cat. 2	H411

2.2 Labeling elements

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

1272/2008 Signal Word: Warning

Hazard pictogram:

Hazard statements
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic 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.
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.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
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

Section 3 - Composition / Information on Ingredients

3.1 Substances
N/A

3.2 Mixtures

Component	Concentration
Bisphenol-A/epichlorohydrin epoxy resin	80-90%

CAS No. 25068-38-6 EINECS No. 500-033-5 (NLP)
GHS/CLP: Skin irrit. 2 - H315; Skin sens. 1 - H317; Eye irrit. 2 - H319; Aquatic chronic 2 - H411

C_{12}-C_{14}-Alkylglycidyl ether 10-20%
CAS No. 68609-97-2
EINECS No. 271-846-8
GHS/CLP: Skin irrit. 2 - H315 ; Skin sens. 1 - H317; Aquatic chronic 4 - H413

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: Drench the affected area immediately with plenty of water; remove contaminated clothing. Wash thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation, rash or other adverse effects occur.

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 if symptoms persist.

In the event of swallowing: DO NOT induce vomiting; rinse mouth then drink plenty of water; get medical attention if symptoms persist.

In the event of exposure by inhalation: Move person to fresh air. Get medical attention if symptoms develop.

4.2 Most important symptoms and effects, both acute and delayed

Skin irritation, allergic reactions.

4.3 Indication of any immediate medical attention and special treatment needed

No specific antidote; treat symptomatically.

Eye wash stations and emergency showers should be available.

Section 5 - Fire Fighting Measures

5.1 Extinguishing media

Carbon dioxide, alcohol resistant foam, dry chemical, water fog; use water spray to cool fire-exposed containers. Do not use direct water stream which may spread fire.

5.2 Special hazards arising from the substance or mixture

Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide, phenolics, aldehydes; smoke may contain particles of the original material as well. Prevent fire-fighting waters from entering sewer or waterways.

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. Do not use high volume water jet 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; 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.

6.2 Environmental precautions:

Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches, waterways by using sand, earth or appropriate barriers.

6.3 Methods and material for containment and cleaning up

Absorb with sand, diatomaceous earth or universal binders and collect into suitable disposal container. 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 of workplace and storage areas; avoid skin contact; do not breathe mist, vapors, spray; use recommended personal protective equipment; wash thoroughly after handling. Do not eat, drink or smoke in the work area. Avoid use of electric band heaters (failures of such heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire). Never apply a direct flame to any container of product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Keep away from incompatible materials. Keep container tightly closed. Recommended storage temperature: 10-35°C (50-95°F).

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters

Occupational exposure limits: OSHA/PEL: None established

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

Ensure adequate ventilation through local exhaust.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye/face protection

Use safety glasses with side shields. 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

Although no exposure limits have been established, respiratory protection may be of use if any respiratory irritation or discomfort is noted; if the material is processed at elevated temperatures without adequate ventilation, it may be necessary to wear an air-purifying 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

Wear nitrile rubber, nitrile, neoprene, PVC or other suitable impervious gloves; refer to European Standard EN374. Gloves selected must have a breakthrough rating appropriate for the work shift (>480 minutes).

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.

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:** Yellow
Type of Odor: Slight epoxy odor
Odor Threshold: Not determined

9.1.2 Important health, safety and environmental information: Initial Boiling Point: >218°C (>424°F)
Melting Point: Not applicable
Flammability Classification: Combustible IIIB
Flash Point: >150°C (>302°F)
Autoignition Temperature: No data available
Decomposition Temperature: >268°C (>514°F)
Flammability Limits (lower/upper): No data available
Vapor Pressure: 0.03 mm Hg @ 25°C
Vapor Density (Air=1): >1
Evaporation Rate (BuAc=1): <1
Octanol/Water Partition Coefficient (log P_{ow}): 3 (for epoxy resin component)
Specific Gravity: 1.11
Bulk Density: 9.25 lbs/gal
Water Solubility: Slight
pH: Not determined
Viscosity: 470-670 cP @ 25°C
Volatile Content: <1%
Explosive Properties: Not determined
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
Masses of more than one pound (0.5 kg) product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

10.4 Conditions to avoid
Excessive heat.

10.5 Incompatible materials
Strong oxidizing agents, acids, alkalis, amines.

10.6 Hazardous decomposition products
Uncontrolled exothermic reaction of epoxy resin releases carbon monoxide, carbon dioxide, phenolics, aldehydes.

Section 11 - Toxicological Information

11.1 Information on toxicological effects
Acute Oral Toxicity: LD50(rat): >5000 mg/kg
Acute Dermal Toxicity: LD50(rabbit): >4000 mg/kg
Skin Corrosion/irritation (rabbit): Causes slight skin irritation
Serious Eye Damage / Eye Irritation (rabbit): Causes serious eye irritation; corneal injury is not likely.
Skin Sensitization (guinea pig): Causes allergic skin reactions.
Germ Cell Mutagenicity: Not classified based on available data.
Carcinogenicity: Not classified based on available data. Not listed by IARC, NTP, OSHA.
Reproductive Toxicity: Not classified based on available data.
Specific Target Organ Toxicity - single exposure (STOT-se): Not classified based on available data.
Specific Target Organ Toxicity - repeated exposure (STOT-re): Not classified based on available data.
Aspiration Hazard: Not classified based on available data.
Potential Health Effects:
Skin: Causes mild skin irritation; may cause sensitization; once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Eyes: Causes serious eye irritation; pain, irritation, watering, redness
Ingestion: Low toxicity; incidental ingestion of small amounts not anticipated to be harmful.
Inhalation: Low volatility; not expected to be a significant route of exposure. Inhalation of heated vapors may irritate the respiratory tract causing coughing or wheezing.
Potential Chronic Health Effects:
May cause an allergic skin reaction.

Section 12 - Ecological Information

12.1 Toxicity

12.1.1 Acute/prolonged toxicity to fish
LC50 (Fathead minnow)(96-hr): 3.1 mg/l (epoxy resin)

12.1.2 Acute/prolonged toxicity to aquatic invertebrates
EC50 (Daphnia magna)(24-hr): 3.6 mg/l (epoxy resin)

12.1.3 Acute/prolonged toxicity to aquatic plants
No data available

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
No data available

12.1.6 General effect
Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability
Biodegradation rate: 5% after 28 days (not readily biodegradable)

12.3 Bioaccumulative potential
BCF = 31, Log P_{ow} = 3 (low potential to bioaccumulate in aquatic organisms)

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment (EC reg. 453/2010)
Not classified as Persistent, Bioaccumulative and Toxic Not classified as very Persistent or very Bioaccumulative

12.6 German WGK classification
WGK = 2 (self-classification)

12.7 Other adverse effects
No other adverse effects are identified.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Disposal: Do not dump to ground, sewers or watercourses. Reuse uncontaminated material when possible. All methods of disposal must be 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; empty/clean containers should be recycled; incinerate or landfill when recycling is not feasible.

Section 14 - Transport Information

14.1 Shipping description

DOT Proper Shipping Description: Not regulated for ground transport

IMDG Proper Shipping Description:
UN3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
Hazard Class: 9
Packing Group: PG III
EmS No.: F-A, S-F
Marine Pollutant: Yes

IATA Proper Shipping Description:
UN3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
Hazard Class: 9
Packing Group: PG III
EmS No.: F-A, S-F
Additional Information: MARINE POLLUTANT

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
SARA Title III Section 313 (40CFR372): No reportable components
CERCLA Status (40CFR302): No Reportable Quantity components
TSCA Inventory Status: Reported/included
Canadian DSL Status: Reported/included
Canadian WHMIS Classification: D2B
Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:
This product contains Epichlorohydrin CAS# 106-89-8 (trace amount).

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:	**2**
	Flammability:	**1**
	Reactivity:	**0**

Revised: 05/25/2018

(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)

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	International carriage of dangerous goods by Road
AICS	Australian Inventory of Chemical Substances
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
WGK	Wassergefahrdungsklasse (Water Hazard Class)
WHMIS	Workplace Hazardous Material Identification System

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END OF SDS