



Engineered Plastic Solutions™

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: CE211 Part B
Product Code: CE211B
Product Use: Epoxy Curative
Effective Date: 9/19/2011
Revision Date: 12/13/2018

Tri-Star Plastics Corp
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Section 2 – Hazard(s) identification

Classification: Skin Irritation Category 2
Eye Irritation Category 1
Skin Sensitization Category 1
Acute Toxicity (Inhalation) Category 4

Hazard Symbols:



Signal Words: Danger

Hazard Statements: Cause serious eye damage
Causes skin irritation
May cause an allergic skin reaction
Harmful if inhaled

Precautionary Statements:

Prevention: Wear eye protection/face protection.
Wear protective gloves.
Avoid breathing mist, vapors or spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Use only outdoors or in a well-ventilated area.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
If on skin: Wash plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call medical attention if you feel unwell.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents in accordance with local, regional and international regulations.

Section 3 – Composition/Information on Ingredients

Hazardous Ingredients(s)	%(by wt.)	CAS NO.
Fatty Acid Polyamides	25-50%	68410-23-1
Talc	25-50%	14807-96-6
Triethylenetetramine (TETA)	1-10%	112-24-3
Tetraethylenepentamine (TEPA)	1-10%	112-57-2
Glass Oxide	< 5%	65997-17-3
Fumed Silica (amorphous)	< 5%	112945-52-5

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

Section 4 – First Aid Measures

Eyes:	For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Remove contact lenses, if present and easy to do. Immediately call a poison center or doctor.
Skin:	Remove contaminated clothing. Wipe off excess material from exposed area. Flush exposed area with water. Wash area with soap and water. If skin irritation or rash occurs, get medical attention. Do not reuse clothing until clean. Contaminated leather articles including shoes cannot be cleaned and should be discarded.
Inhalation:	Move patient to fresh air and keep victim comfortable for breathing. Get medical attention if victim feels unwell.
Ingestion:	Wash mouth out with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call Poison Center or get medical attention immediately.

Section 5 – Fire-Fighting Measures

Extinguishing Media: Use dry chemical, CO₂, water spray (fog) or foam.

Specific Hazards Arising from the Product: Harmful, irritating or toxic vapors/gases may be formed in a fire.

Special Protective Equipment and Precautions for Fire-Fighters: Use standard fire-fighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.

Section 6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Shut off or remove all ignition sources. Avoid all personal contact. Wear appropriate personal protective equipment. Ventilate the space involved. Construct a dike to prevent spreading. Contain run-off from residue flush and dispose of properly. Prevent entry into waterways, sewer, basements or confined areas.

Methods and Materials for Containment and Cleaning Up:

Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water. Clean-up personnel must be equipped with suitable personal protective equipment.

Section 7 – Handling and Storage

Precautions for Safe Handling:

Keep liquid and vapor away from heat, spark and flame. Use with adequate ventilation, vapors may accumulate and travel to ignition sources away from the handling site; flash-fire can result. Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or spray. Use only with good ventilation. When handlings, do not eat, drink or smoke. Individuals should wash thoroughly with soap and water after handling.

Conditions for Safe Storage, including any incompatibilities:

Store in a well-ventilated place. Keep cool. Keep containers closed to prevent moisture absorption and contamination.

Section 8 – Exposure Controls/Personal Protection

OSHA PEL

Hazardous Ingredients(s)	OSHA (ACGIH) TLV	CAS NO.
Fatty Acid Polyamides	Not Established	68410-23-1
Talc	Not Established	14807-96-6
Triethylenetetramine (TETA)	Not Established	112-24-3
Tetraethylenepentamine (TEPA)	Not Established	112-57-2
Glass Oxide	Not Established	65997-17-3
Fumed Silica (amorphous)	Not Established	112945-52-5
Xylene	100 ppm TWA OSHA	1330-20-7
Ethylenebenzene	100 ppm TWA OSHA	100-41-4

* Components are considered nuisance dust in a respirable form and do not present a health hazardous in the wet or cured form. Airborne particulates created during cutting, sanding or grinding should be minimized through the use of good work practices

Engineering Controls:

Ventilation: Good general mechanical ventilation and local exhaust.

Special Precautions: Cutting or grinding of cured material may release nuisance dust. Use of mechanical ventilation with a dust mask should be used under these conditions to avoid dust inhalation. Engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal Protective Equipment:

Eye Protection: Wear splash resistant safety goggles.

Skin Protection: Wear impervious gloves and other clothing to prevent contact.

Respirators: Organic vapor respirator National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors recommended, if adequate ventilation is not present.

Hygienic Practices: Wash hands before eating, smoking or using toilet facilities. Do not smoke in any chemical handling and storage area. Food or beverages should not be consumed near where this product is stored. Remove and wash contaminated clothing before reuse.

Section 9 – Physical and Chemical Properties

Appearance	Viscous Liquid Resin
Color	Greenish beige
Odor	Ammonical
Odor Threshold	Not Established
pH	Not Established
Melting Point/Freezing Point	Not Established
Boiling Point	> 356°F (180°C)
Flash Point	> 200°F (93.33°C)
Evaporation Rate	Not Established
Upper/Lower flammability or explosive limits	Not Established
Vapor Pressure	Not Established
Vapor Density	Not Established

Relative Density	Not Established
Specific Gravity	1.34
Bulk Density (lbs./gal)	11.18
Solubility	Slightly Soluble
Partition Coefficient; n-octanol/water	Not Established
Auto-ignition temperature	Not Established
Viscosity	Not Established

Section 10 – Stability and Reactivity

Reactivity:	Reacts with considerable heat release with epoxy resin.
Chemical Stability:	This is a stable material use normal conditions of storage and use.
Possibility of Hazardous Reactions:	Reacts with considerable heat release with epoxy resin.
Conditions to Avoid:	Avoid ignition sources. Avoid high temperatures. Heating this resin above 300°F in the presence of air may cause slow oxidative decomposition. Heating above 500°F may cause polymerization. Some combinations of resins and curing agents can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants with release of fumes and vapors.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Nitrogen oxides, carbon monoxide and unidentified organic compounds (some containing nitrogen) may be formed during thermal or oxidative decomposition or combustion.

Section 11 – Toxicological Information

Routes of Exposure:

Eye Contact
Skin Contact
Inhalation
Ingestion

Symptoms related to toxicological characteristics:

No Data

Delay and immediate effects:

No Data

Chronic effects:

No Data

Toxicity Data:

Fatty Acid Polyamides

LD50 Oral	Rat	> 5000 mg/kg
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Triethylenetetramine

LD50 Oral	Rabbit	5500 mg/kg
LD50 Oral	Mouse	38.5 mg/kg
LD50 Oral	Rat	1080 mg/kg
LD50 Dermal	Rabbit	675 mg/kg

Tetraethylenepentamine

LD50 Oral	Rat	1716 mg/kg
LD50 Dermal	Rat	1465 mg/kg

Xylene

LD50 Oral	Rat	3523 mg/kg
LD50 Dermal	Rabbit	1700 mg/kg
LC50 Inhalation	Rat	5000 ppm 4 hr

Ethylenebenzene

LD50 Oral	Rat	3500 mg/kg
LD50 Dermal	Rabbit	5510 mg/kg

Carcinogenicity:

Ethylbenzene is an IARC Group 2B Carcinogen based on animal studies.

Section 12 – Ecological Information

Ecotoxicity:	No Data
Persistence and Degradability:	No Data
Bioaccumulative Potential:	No Data
Mobility in Soil:	No Data
Other Adverse Effects:	No Data

Section 13 – Disposal Considerations

Dispose of contents in accordance with local, regional and international regulations.

Section 14 – Transportation Information

Land Transportation (DOT):	Not Regulated in Non-Bulk Containers
Sea Transportation (IMDG):	Not Regulated in Non-Bulk Containers
Air Transportation (IATA):	Not Regulated in Non-Bulk Containers

Section 15 – Regulatory Information

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material. To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. TriStar Plastics does not undertake to furnish advice on such matters.

United States Federal Regulations:**US EPA CERCLA Hazardous Substances (40 CFR 302):**

Not Evaluated

SARA Section 311/312 Hazard Categories:

Not Evaluated

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

Not Evaluated

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III

Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required:

None

State Right-To-Know Information:

For details of your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists: Not Evaluated

New Jersey Environmental Hazardous Substances List and/or New Jersey, RTK Special Hazardous Substances Lists: Not Evaluated

California Prop. 65: This product contains the chemicals listed below, which the State of California has found to cause cancer, birth defects or reproductive harm.

Toluene

Xylene (less than 0.1%)

Ethyl Benzene (less than 0.1%)

Section 16 – Other Information

HMIS Ratings:

Health: 2*

Flammability: 1

Physical Hazard: 0

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of TriStar Plastics' product safety program. It is not intended to constitute performance information concerning the product. No Express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

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Company: TriStar Plastics

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