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SAFETY DATA SHEET

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SECTION 1: IDENTIFICATION

PRODUCT NAME: CIPADITE® E-700 GROUT HI FLOW PART “B”

MANUFACTURER/SUPPLIER: CPD Construction Products
219 Connie Crescent, Unit #13
Concord, Ontario Canada L4K 1L4

24 HOUR EMERGENCY NUMBER: CANUTEC: (613) 996-6666

APPLICATION AND USE: High strength grout for base plates, anchor bolts, columns etc., where either very high strengths and/or chemical resistance are required.

PRODUCT DESCRIPTION: Aggregate filled thermosetting Epoxy Compound. This component is the catalyst only. Cipadite® E-700 Grout HI FLOW is a three-component product. There are 3 SDS's for this product.

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Acute Toxicity, dermal- 4; Skin corrosion/ irritation- 1B; Serious eye damage/ eye irritation- 1; Skin sensitization- 1A; Reproductive Toxicity- 2; Specific target organ toxicity, single exposure- 3 (Respiratory irritation)



SIGNAL WORD:
HAZARD STATEMENTS:

DANGER
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H317 May cause allergic skin reaction
H335 May cause respiratory irritation
H361 Suspected of damaging fertility or the unborn child

PRECAUTIONARY STATEMENTS:
PREVENTION

P201 Obtain special instruction before use
P202 Do not handle until all safety precautions have been read and understood
P271 Use only outdoors or in a well-ventilated area
P260 Do not breathe dust or mist
P272 Contaminated work clothing should not be allowed out of the workplace
P264 Wash thoroughly after handling
P280 Wear protective gloves/ clothing and eye/face protection
P308+P311 If exposed or concerned: Call a POISON CENTER or doctor /physician.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention
P304+P340 IF INHALLED: Remove person to fresh air and keep 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.
P301+ P330+P331+315 IF SWALLOWED: Rinse mouth. Do not induce vomiting. Get immediate medical advice/ attention
OTHER HAZARDS Ingestion can cause gastrointestinal irritation, nausea and diarrhea. Prolonged inhalation may cause adverse lung effects with symptoms including coughing, mucous production and difficulty breathing.

RESPONSE

OTHER HAZARDS

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	C.A.S. #	LD/50, Route, Species	LC/50, Route, Species
Triethylenetetramine	40-70	112-24-3	4340 mg/ Kg (Oral, Rat) 805 mg/ Kg (Dermal, Rabbit)	No Data
Tall Oil Fatty Acids, reaction product with Tetraethylene Pentamine	20-25	68953-36-6	2919-4464 mg/ Kg (Oral, Rat) >2000 mg /Kg (Dermal, Rabbit)	No Data
Tetraethylene Pentamine	3-7	112-57-2	3250 mg/ Kg (Oral, Rat) 660-1269 mg/ Kg (Dermal, Rabbit)	No Data
Bisphenol A	1-5	80-05-7	3300 mg/ Kg (Oral, Rat) 3600 mg/ Kg (Dermal, Rabbit)	> 0.255 mg/L (dust), Inh. Rat
Diethylene Triamine	1-5	111-40-0	1080 mg/ Kg (Oral, Rat) 1041 mg/ Kg (Dermal, Rabbit)	> 0.07 < 0.3 mg/L (mist), Inh. Rat
Cyclohexanone	1-3	108-94-1	1340 mg/ Kg (Oral, Rat) 940 mg/ Kg (Dermal, Rabbit)	2639 ppm (10.6 mg/L) (vapour) Inh. Rat
Tris(dimethylaminomethyl) Phenol	1-3	90-72-2	2169 mg/ Kg (Oral, Rat) 1280 mg/ Kg (Dermal, Rabbit)	No data

SECTION 4 : FIRST-AID MEASURES

FIRST-AID MEASURES	
EYE CONTACT	Immediately call a POISON CENTRE or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
SKIN CONTACT.....	Immediately call a POISON CENTRE or doctor/physician. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
INHALATION	Immediately call a POISON CENTRE or doctor/ physician. IF INHALED: remove person to fresh air and keep comfortable for breathing. If breathing has stopped give artificial respiration. If breathing is difficult give oxygen by qualified medical personnel only.
INGESTION	Immediately call a POISON CENTRE or doctor/ physician. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Never give anything by mouth to an unconscious person.
SYMPTOMS AND EFFECTS, ACUTE OR DELAYED	
EYE CONTACT	Causes severe eye damage.
SKIN CONTACT	Harmful in contact with skin. May be absorbed through the skin. Corrosive to all tissues. Causes severe skin burns. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. May cause an allergic skin reaction (e.g. swelling, rash and eczema) Allergic symptoms may develop within 12 hours after exposure.
INHALATION	Harmful if inhaled. May cause respiratory irritation. If mists are formed, may cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, chest pain and shortness of breath.
INGESTION	Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract. Symptoms include: Gastrointestinal discomfort, nausea, vomiting, cramping and diarrhea. Suspected of damaging fertility or the unborn child.
NOTE TO THE PHYSICIAN	In the event of accidental exposure immediate medical attention is required. Treat symptomatically.

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SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Carbon dioxide (CO ₂), dry chemical or alcohol foam.
UNSUITABLE EXTINGUISHING MEDIA	Do not use a solid water stream as it may scatter and spread fire.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
FLAMMABILITY CLASSIFICATION	Not flammable, according to OSHA 29 CFR 1910.106.
HAZARDOUS COMBUSTION PRODUCTS	Carbon oxides. Nitrogen oxides, Hydrogen cyanide, Ammonia, Amines, Aldehydes, Ketones and other irritating fumes and smoke.
FIRE-FIGHTERS PROTECTIVE EQUIPMENT ...	Fire-fighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, fire-fighters should wear an approved full face, self-contained breathing apparatus (SCBA) and impervious clothing.
SPECIAL FIRE FIGHTING PROCEDURES	Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from the firefighting to enter drains or water courses. Dike for water control.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
ENVIRONMENTAL PRECAUTIONS	Ensure spilled product does not enter drains, sewers, waterways or confined spaces. For large spills, dike the area to prevent spreading.
METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN-UP	Ventilate the area. Remove all sources of ignition. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labelled containers. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.
SPECIAL SPILL RESPONSE PROCEDURES ...	If a spill/ release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response centre in the United States (phone: 1-800-424-8802) or the appropriate local authorities.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Persons with recurring skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Wear protective gloves/ clothing and eye/ face protection. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Wash thoroughly after handling. Keep containers tightly closed when not in use. Keep away from extreme heat and flame. Take precautions to prevent premature mixing of components and subsequent premature curing.
CONDITIONS FOR SAFE STORAGE	Store locked up. Keep containers tightly closed. Store in a well-ventilated place. Store away from incompatible materials. Inspect periodically for damage or leaks. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking in the area.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
TRIETHYLENETETRAMINE	1 ppm (skin) (AIHA WEEL)	N/Av	N/Av	N/Av
TETRAETHYLENEPENTAMINE	5 mg/ m ³ (skin) (AIHA WEEL)	N/Av	N/Av	N/Av
DIETHYLENETRIAMINE	1 ppm (skin)	N/Av	1 ppm (final rule limit)	N/Av
CYCLOHEXANONE	20 ppm (skin)	N/Av	50 ppm (200 mg/ m ³)	N/Av
EXPOSURE CONTROLS:				
VENTILATION/ ENGINEERING MEASURES:				
Use only in well ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.				
RESPIRATORY PROTECTION	If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29CFR 1910.134) or CSA Z94.4-02. NIOSH approved organic vapour cartridge respirators are recommended. Advice should be sought from respiratory protection specialists.			
SKIN PROTECTION	Wear protective gloves/ clothing. Gloves impervious to the material are recommended. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.			
EYE/ FACE PROTECTION	Wear eye/ face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.			
OTHER PROTECTIVE EQUIPMENT	An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.			
GENERAL HYGIENE CONSIDERATIONS	Do not eat, drink, smoke or use cosmetics while working with this product. Do not breath dust or mist. Avoid contact with eyes, skin and clothing. Barrier creams may help to protect the exposed areas of skin; they should however not be applied once exposure has occurred. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Contaminated clothing must not be allowed out of the workplace.			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear amber liquid
ODOUR	Amine Odour
ODOUR THRESHOLD	Not available
pH LEVEL	Not available
MELTING/ FREEZING POINT	Not available
BOILING POINT	250°C (482°F)
FLASH POINT	Not available
EVAPORATION RATE	Not available
FLAMMABILITY	Not applicable
VAPOUR PRESSURE	Less than 1 mmHg @ 20°C (68°F)
VAPOUR DENSITY (Air=1) (mg/m ³)	5.04
SPECIFIC GRAVITY @ 20°C (68°F)	0.980
VISCOSITY	100 cps @ 20°C (68°F)
VOLATILES (% by WEIGHT)	Not available
VOC's (Volatile Organic Compounds)	0 grams/L
SOLUBILITY IN WATER (%W/W)	Partially soluble

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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not normally reactive.
CHEMICAL STABILITY	Stable under the recommended storage and handling conditions prescribed.
HAZARDOUS REACTIONS	Hazardous polymerization does not occur.
CONDITIONS TO AVOID	Avoid heat and open flame. Avoid contact with incompatible materials. Ensure adequate ventilation, especially in confined areas.
INCOMPATIBLE MATERIALS	Acids. Oxidizing agents. Acid chlorides. Acid anhydrides. Aldehydes. Ketones. Acrylates.
HAZARDOUS DECOMPOSITION PRODUCTS	Refer to hazardous combustion products, Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE	Inhalation, skin and eye contact, ingestion, skin absorption.
SIGNS AND SYMPTOMS OF EXPOSURE	
INHALATION	May cause respiratory irritation. If mists are formed, may cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, chest pain and shortness of breath.
INGESTION	Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract. Symptoms include: Gastrointestinal discomfort, nausea, vomiting, cramping and diarrhea.
SKIN CONTACT	Harmful in contact with skin. May be absorbed through the skin. Corrosive to all tissues. Causes severe skin burns. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring.
EYE CONTACT	Corrosive to eyes. Causes serious eye damage. Direct eye contact may produce severe irritation with possible eye damage.
CHRONIC HEALTH EFFECTS	Prolonged inhalation may cause adverse lung effects with symptoms including coughing, mucous production and difficulty breathing.
MUTAGENICITY	Not expected to be mutagenic in humans.
CARCINOGENICITY	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP
REPRODUCTIVE EFFECTS	This material is classified as hazardous under U.S. OSHA regulations (29 CFR1910.1200) (Hazcom2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015) Classification: Reproductive Toxicity- Category 2 Suspected of damaging fertility or the unborn child.
SENSITIZATION TO MATERIAL	This material is classified as hazardous under U.S. OSHA regulations (29 CFR1910.1200) (Hazcom2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015) Classification: Skin sensitization- Category 1A- May cause allergic skin reaction.
SPECIFIC TARGET ORGAN EFFECTS	Not expected to be a respiratory sensitizer. Eyes, skin, respiratory system and digestive system. This material is classified as hazardous under U.S. OSHA regulations (29 CFR1910.1200) (Hazcom2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015) Classification: Specific target organ toxicity, single exposure- Category 3 May cause respiratory irritation. Not classified as specific target organ toxicity- repeated exposure.
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE	Pre-existing skin, eye, and respiratory disorders.
SYNERGISTIC MATERIALS	Not available.
TOXICOLOGICAL DATA	There is no data available for this product.
INGREDIENTS LD50/ LC50 DATA	Refer to Section 3.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Avoid release to the environment.
PERSISTENCE AND DEGRADABILITY	No data is available on the product itself.
BIOACCUMULATION POTENTIAL	No data is available on the product itself.
MOBILITY IN SOIL	No data is available on the product itself.

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SECTION 13: DISPOSAL CONSIDERATIONS

HANDLING FOR DISPOSAL	Handle in accordance with good industrial hygiene and safety practice. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Refer to protective measures listed in Sections 7 and 8.
METHODS OF DISPOSAL	Dispose in accordance with all federal, state, provincial and local regulations.
RCRA	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14: TRANSPORTATION INFORMATION

IN ACCORDANCE WITH ALL TDG; 49CFR/DOT; ICAO/ IATA; IMDG CRITERIA:	Corrosive liquid, Basic, Organic, N.O.S. (Triethylenetetramine, Tetraethylene Pentamine) UN3267, Class 8, PG II
	
SPECIAL PRECAUTIONS FOR USERS	Appropriate advice on safety must accompany the package
ENVIRONMENTAL HAZARDS	This product does not meet the criteria for an environmental hazardous mixture, according to the IMDG Code. Refer to Section 12.
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	This information is not available.

SECTION 15: REGULATORY INFORMATION

CEPA INFORMATION	All ingredients listed appear on the Domestic Substances List (DSL)
WHMIS CLASSIFICATION	Class D, Division 2, Subdivision B
	Class E, Corrosive
CPR (CANADA) COMPLIANCE	Meets all requirements.

SECTION 16: OTHER INFORMATION

ACGIH	American Confederation of Governmental Industrial Hygienists
IARC.....	International Agency for Research on Cancer
NTP.....	National Toxicology Program
STEL	Short Term Exposure Limit
PEL	Permissible Exposure Limit
TLV-TWA	Threshold Limit Value - Time-Weighted Average
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
RCRA	Resource Conservation and Recovery Act
CPR	Controlled Products Regulations
CEPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAS	Chemical Abstracts Service
PPE	Personal Protection Equipment
N/Av	Not available
PREPARED BY:	Camelia Gardo
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PREPARATION DATE:	March 20 th , 2018

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

