

CARBONBOND CRACK REPAIR HYP700E SAFETY INFORMATION

COMPANY IDENTIFICATION

Intech Anchoring Systems
8250 Bunkum Rd, Caseyville, IL 62232
800-223-7015

Emergency Telephone INFOTRAC: 1-800-535-5053

IDENTIFICATION

Product Identifier:

Product Name: HYP700E Hydro Sealant.

Other Means of Identification:

Product Code: 700.

HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Respiratory sensitization, 1

Health, Skin sensitization, 1

Health, Skin corrosion/irritation, 2

Health, Specific target organ toxicity - Repeated exposure, 2

Health, Specific target organ toxicity - Single exposure, 3

Health, Acute toxicity, 4 Inhalation

Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Label elements, including precautionary statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H334:

May cause allergy or asthma symptoms of breathing difficulties if inhaled.

H317:

May cause an allergic skin reaction.

H315:

Causes skin irritation.

H373:

May cause damage to the respiratory system through prolonged or repeated exposure by inhalation.

H335:

May cause respiratory irritation.

H332:

Harmful if inhaled.

H319:

Causes serious eye irritation.

GHS Precautionary Statements:

P260:

Do not breathe fumes, mist and vapors.

P264:

Wash skin and face thoroughly after handling.

P271:

Use only outdoors or in a well-ventilated area.

P272:	Contaminated work clothing should not be allowed out of the workplace.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P284:	In case of inadequate ventilation, wear respiratory protection.
P303+352:	If on skin or hair, wash with plenty of soap and water.
P304+340:	If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+351 +338:	If in eyes, rinse continuously with water for several minutes. Remove contact lenses if present and easy. Continue rinsing.
P308+313:	If exposed or concerned, get medical advice/attention.
P312:	Call a poison center or doctor/physician if you feel unwell.
P333+311:	If skin irritation or a rash occurs: Call a poison center or doctor/physician.
P337+311:	If eye irritation persists: Call a poison center or doctor/physician.
P342:	If experiencing respiratory symptoms: Call a doctor or emergency medical facility (i.e. 911)
P362	Takeoff contaminated clothing and wash before reuse.
P403+233	Store in a well ventilated place. Keep container tightly closed.
P405:	Store locked up.
P501:	Dispose of contents/container in accordance with federal/state/local regulations.

COMPOSITION/INFORMATION ON INGREDIENTS

Cas#:	%	Chemical Name
101-68-8	2-7%	4,4'-Methylenediphenyl diisocyanate.
26447-40-5	0.1-0.5%	MDI Mixed Isomers.
.....	40-50%	Trade Secret.
112-15-2	45-55%	Diethylene glycol monoethyl ether acetate.
25686-28-6	0.25-1 %	Benzene, 1, 1 '-methylenebis[4-isocyanato-, homopolymer.
26471-62-5	<0.1%	Toluene diisocyanate.

-The specific chemical identity is a Trade Secret.

-The exact percentage of the components has been withheld as a Trade Secret.

FIRST AID MEASURES

Eyes:	Flush with plenty of water, preferably lukewarm for at least 15 minutes, holding eyelids open all the time. Get medical attention.
Skin:	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. For severe exposures, get under safety shower and begin rinsing. Seek medical attention if irritation develops or persists after the area is washed.



Inhalation: Move to an area free from risk of further exposure. Obtain medical attention. Administer oxygen or artificial respiration as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.

Ingestion: Do not induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Consult physician.

Most Important Symptom(s)/Effect(s) Acute:

Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g., fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible. Causes skin irritation with symptoms of reddening, itching, and swelling. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove. Contact with MDI can cause discoloration. Causes eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing. May cause irritation of the digestive tract. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea. Delayed: Symptoms affecting the respiratory tract can also occur several hours after overexposure.

FIRE FIGHTING MEASURES

Extinguishing media: Suitable media includes carbon dioxide, dry chemical, or water spray. Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the substance or mixture: Toxic and/or irritating fumes can be produced during burning of this material. Decomposition products may be hazardous (see Stability and Reactivity Section for details on decomposition products).

Advice for firefighters: Firefighters should wear self-contained breathing apparatus and full protective clothing. Downwind personnel should be evacuated. Use water spray to cool containers and minimize the risk of rupture. Do not reseal contaminated containers as pressure buildup may rupture them.

ACCIDENTAL RELEASE MEASURES

Personal pre-cautions, protective equipment, and emergency procedures: Evacuate personnel. Ensure adequate ventilation. Wear suitable PPE as described in personal protection section.

Environmental precautions: Prevent migration into groundwater, sewers, or streams. Land spills may require excavation of contaminated soil. Material should not be released into



the environment.

Methods and materials for containment and cleaning up:

Ensure adequate ventilation. Contain any spills with dikes or adsorbents. Material may be soaked with a dilute ammonium hydroxide or water/alcohol mixture to react isocyanate. Allow time for reaction to be complete before disposal.

HANDLING AND STORAGE

Handling Precautions:

Precautions for safe handling

Use in a well ventilated area, using good industrial hygiene practices. Avoid contact with eyes, skin, and clothing, and wear proper PPE.

Storage Requirements:

Conditions for safe storage, including anything that is incompatible Store material at ambient temperature (18°C-29°C) and pressure. Keep away from sources of direct heat and moisture. Keep container tightly closed when not in use, and seal with a nitrogen blanket. Moisture contamination may evolve carbon dioxide gas, which may cause containers to pressurize. Material is stable under normal conditions.

PERSONAL PROTECTION

Engineering Controls:

Provide local exhaust ventilation to keep airborne concentrations below the recommended occupational exposure limits.

Personal Protective Equipment:

Hand:

Type of Protection (Minimum Suggested Equipment)
Chemical resistant gloves (e.g. nitrile, neoprene, butyl rubber). Gloves should be tested to determine suitability for prolonged contact.

Eye:

Safety glasses with side shields or safety goggles

Skin:

Impervious clothing, including but not limited to apron, full body suit, chemical resistant shoes or shoe covers. Use long sleeves at a minimum.

Respiratory:

If concentrations are above the occupational exposure limits, an approved respirator should be used (air-purifying or air supplied).

Additional Protective Measures:

Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.



Occupational Exposure Limit(s):

Chemical Name	Limit Type	Value	Comments
4,4'-Methylenediphenyl diisocyanate	TLV-TWA	0.005 ppm	ACGIH Guideline
4,4'-Methylenediphenyl diisocyanate	PEL-Ceiling	0.02 ppm	OSHA Guideline

Toluene Diisocyanate-(26471-2-6) (<0.1 %)

Chemical Name	Limit Type	Value	Comments
Toluene Diisocyanate	PEL-Ceiling	0.02ppm	OSHA Guideline
Toluene Diisocyanate	PEL-TWA	0.005ppm	Cal/OSHA Guideline
Toluene Diisocyanate	TLV-STEL	0.005ppm	ACGIH Guideline
Toluene Diisocyanate	TLV-TWA	0.001 ppm	ACGIH Guideline
Toluene Diisocyanate	IDLH Cone.	2.5 ppm	NIOSH Guideline

Components listed in Composition/Information on ingredients section which are not listed in this section do not have any known ACGIH TLV or OSHA PEL occupational exposure limits.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to hazy	Odor:	Slight
Physical State	Liquid	Solubility:	Not soluble in water (reacts with water)
Odor Threshold	Not determined	Freezing/Melting Pt.:	No data available
Spec Grav./Density	1.09g/cm ³ @ 25C	Flash Point:	100°C
Viscosity	160cP@26C	Octanol:	Not determined
Boiling Point	Not determined	Vapor Density:	Not determined
Flammability	Not applicable	Auto-Ignition Temp:	Not determined
Partition Coefficient	Not determined	UFL/LFL	Not applicable
Vapor Pressure	0.00001 mm Hg (25°C/77°F)		
pH	Not determined		
Evap Rate	Not determined		
Decomp Temp	Not determined		

STABILITY AND REACTIVITY

Reactivity:	This material will react slowly with water or moisture.
Chemical Stability:	Under normal use, no hazardous reaction will occur.
Conditions to Avoid:	Exposure to extreme temperatures, sources of moisture, and contact with incompatible materials should be avoided.
Materials to Avoid:	Water, alcohols, amines, acids, alkalines, strong oxidizing agents, and strong bases may react with the evolution of heat and carbon dioxide.
Hazardous Decomposition:	Hydrogen cyanide, carbon oxides, nitrogen oxides, and isocyanate vapors.
Hazardous Polymerization:	No dangerous reactions will occur under normal use/storage conditions. Contact with moisture, other materials that react with isocyanates, or temperatures above 350 F (177 C), may cause polymerization.

TOXICOLOGICAL INFORMATION

Routes of Exposure and Health Effects/Symptoms:

Inhalation:	Harmful if inhaled. Can cause respiratory sensitization, breathing difficulties and irritation.
Skin contact:	Causes skin irritation. Can cause allergic skin reaction.
Eye contact:	May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling. Ingestion: Not a likely route of entry. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Immediate and Delayed Health Effects:

Irritation, Lachrymation, Breathing difficulties, Sensitization Concentrations below the occupational exposure limits may cause allergic respiratory reaction in sensitized individuals. Overexposure may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs); chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g., fever, chills). Symptoms affecting the respiratory system can be delayed.

LD50s and LC50s:

4,4'-Methylenediphenyl diisocyanate	
LD50 (oral):	> 7,616 mg/kg (rat).
LD50 (dermal):	> 9,400 mg/kg (rabbit).
LC50 (inhalation):	0.368 mg/L (rat, 4 hours).
Toluene Diisocyanate -	(26471-62-5) (<0.1%).
LD50 (oral):	>4,000mg/kg (rat).
LOSO (Dermal):	>9,400mg/kg (rabbit).
LC50 (vapor):	0.48mg/L (rat, 1 hour).



Toluene Diisocyanate: NTP: IARC:	(26471-62-5) (<0.1%) Reasonably anticipated to be human carcinogen Group 2B.
Diphenylmethane: Assessment of carcinogenicity:	4,4" -diisocyanate (MDI): A carcinogenic potential cannot be excluded after prolonged exposure to severely Irritating concentrations. These effects are not relevant to humans at occupational levels of exposure. IARC Group 3 (not classifiable as to human carcinogenicity).

ECOLOGICAL INFORMATION

No data available on product.

4,4'-Methylenediphenyl diisocyanate:	Endpoint/Species/Duration/Result. LC50/Fish/24 hours/>500mg/L. EC50/Water flea (Daphnia)/24 hours/>500mg/L.
Toluene diisocyanate (<0.1%):	Endpoint/Species/Duration/Result. LC50/Rainbow trout/96 hours/133mg/L. EC50/Water flea (Daphnid)/48 hours/12.5mg/L. ErCS0/Algae/96 hours/3230-4300mg/L.

DISPOSAL CONSIDERATIONS

Waste Disposal Method- Waste must be disposed of in accordance with federal, state, and local, environmental control regulations. Incineration is the preferred method.

TRANSPORTATION INFORMATION

Not regulated for transportation.

REGULATORY INFORMATION

Component (CAS#) (%) • CODES
 RQ(5000LBS), 4,4'-Methylenediphenyl diisocyanate (101-68-8) (2-7%) CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR
 Diethylene glycol monoethyl ether acetate (112-15-2) (45-55%) HAP, TSCA
 Benzene, 1,1'-methylenebis[4-isocyanato-, homopolymer (25686-28-6) (0.25-1%) TSCA RQ(100LBS), Toluene diisocyanate (26471-62-5) [<0.1%) CERCLA, HAP, MASS, NJEHS, NJHS, PA, PROP65, SARA313, TOXICRCRA, TSCA, TXHWL
 Regulatory CODE Descriptions
 RQ = Reportable Quantity
 CERCLA = Superfund clean up substance
 HAP = Hazardous Air Pollutants
 MASS = MA Massachusetts Hazardous Substances List
 NJHS = NJ Right-to-Know Hazardous Substances
 OSHAWAC = OSHA Workplace Air Contaminants
 PA= PA Right-To-Know List of Hazardous Substances
 SARA313 = SARA 313 Title III Toxic Chemicals
 TSCA = Toxic Substances Control Act
 TXAIR = TX Air Contaminants with Health Effects Screening Level



NJEHS = NJ Extraordinarily Hazardous Substances
PROP65 = CA Prop 65
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TXHWL = TX Hazardous Waste List
4,4'-Methylenediphenyl diisocyanate
Reportable Quantity: 5000 pounds
SARA TITLE III: Section 313
Toluene Diisocyanate • (26471-62-5) (<0.1%)
Reportable Quantity: 100 pounds
California Proposition 65: known to cause cancer by the state of California
SARA TITLE III: Section 313

Country/ Inventory / Status:
United States / TSCA / On the inventory Canada / DSL / On the inventory

OTHER INFORMATION

PEL:	Permissible exposure limit.
TWA:	Time weighted average.
TLV:	Threshold limit value.
STEL:	Short term exposure limit.
IDLH:	Immediately dangerous to life and health.
OSHA:	Occupational Safety and Health Administration.
ACGIH:	American Conference of Governmental Industrial Hygienists.
NIOSH:	National Institute for Occupational Safety and Health.
N/ A:	Not applicable.
LC ₅₀ :	Lethal concentration to 50% of test subjects.
LD ₅₀ :	Lethal dose to 50% of test subjects.
STOT-SE:	Specific target organ toxicity (single exposure).
STOT-RE:	Specific target organ toxicity (repeated exposure).
EC ₅₀ :	Effective concentration that causes 50% of response from test subjects.
ErC ₅₀ :	EC50 in terms of growth rate reduction.
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act.
SARA:	Superfund Amendments and Reauthorization Act.
TSCA:	Toxic Substances Control Act
DSL:	Domestic Substances List.
NDSL:	Non-Domestic Substances List.

Disclaimer:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, or provincial, and local laws.