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INJECTO[®] Data Sheet

Groutable Hose Waterstop System

Product Description

INJECTO[®] is an injectable waterstop system that provides a conduit for the placement of GCP Applied Technologies chemical grouts. The ½" (12mm) permeable tube is installed before the concrete pour, but not injected until after the shrinkage associated with the curing concrete process is complete (typically a minimum 28-day cure). This allows the cracks to open fully before permanently sealing the interfaces and voids within construction joints, pipe penetrations, slurry walls and slab connections with chemical grout.



Figure 1. INJECTO[®] Kit

Product Advantages

- Fast, simple installation
- No special tools required
- Low pressure injection
- Permanent seal after injection
- Injectable any time after concrete cure

Applications

- Sealing cold and construction joints
- Sealing pipe penetrations and details
- Sealing joints between slurry walls and slabs

INJECTO[®] Tubes should only be used with GCP DE NEEF[®] INJECTO[®] PURE and DE NEEF[®] Flex Cat PURE chemical grouts. Please see different product data sheet and contact your local sales representative or technical services consultant for more details.

Packaging & Handling

INJECTO® is supplied in 100 ft. kits to allow the system to be cut to length on site. The maximum recommended cut length of INJECTO® Tube to be installed between packers is 25 ft. (see Figure 1).

Yellow INJECTO® Tube:	100 ft. (30 m)
Clear PVC Packer Tubing :	18 ft. (5.5 m)
Blue trumpets:	12 pieces
Anchoring clips:	100 pieces

1 Pallet = 40 x 100 ft. kits = 4000 ft. (1219 ft)

Unlimited shelf life when stored in a dry place.

Properties

TYPICAL PROPERTIES	
Outside Diameter	1/2 in. (12.5 mm)
Inside Diameter	5/16 in. (8 mm)
Length	Maximum 25 ft (7.6 m)
Weight	4.5 lbs (2 kg) per 25 ft (2 kg per 7.6 m)
Operating temperature	Up to 158°F (70°C)
Tensile strength steel wire	Approx. 261,000 psi (1800 N/mm ²)
Diameter filter pores	35 microns

Installation Guidelines

A high strength spiral wire coil (1) prevents collapse during concrete placement, while the non-woven filter membrane (2) prevents the tube from being clogged with concrete particles. A bright yellow reinforced mesh sleeve (3) protects the tube and allows for easy inspection before the pour. Wherever old to new concrete surfaces join, the INJECTO® system can be easily installed (see Figure 2).

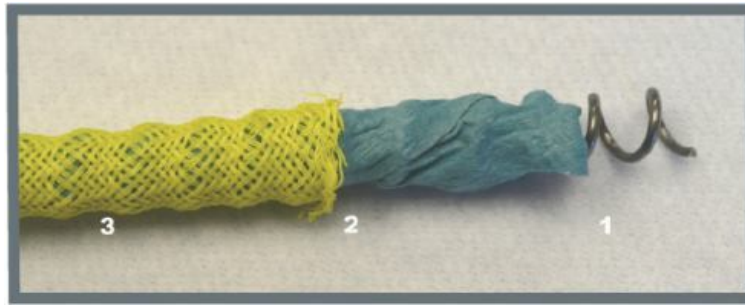


Figure 2. INJECTO® Tube Construction

The yellow INJECTO® Tube is installed onto the hardened concrete during formwork installation. In the case of rough surfaces, any gap between INJECTO® Tube and the surface should be filled with SWELLSEAL® WA or PREPRUFE® Hydrophilic Sealant.

The yellow INJECTO® Tube is cut to the required length on the job site (recommended length 25 ft. or less). The cut ends are smoothed with a twist; then the blue trumpets are installed over the yellow INJECTO® Tube and screwed down to the stop mark inside the trumpet (Figure 3).

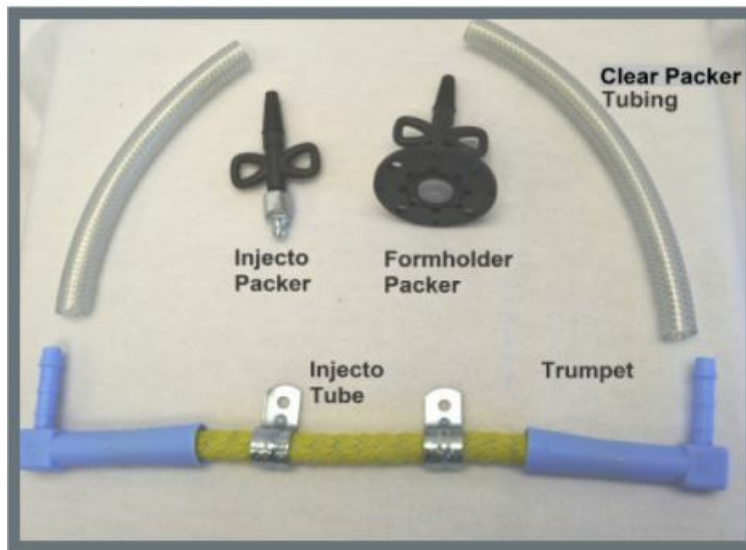


Figure 3. INJECTO® Tube shown with blue trumpets. INJECTO® Packer and Formholder Packer are not included in standard INJECTO® Tube “kit”

The yellow INJECTO® Tube is attached to the concrete with anchoring clips between the inner and outer reinforcing bars. Attach the anchoring clips to the concrete every 12 inches with concrete anchors or nails applied with a powder actuated system (see Figures 4, 5, 6 & 7).



Figure 4. Anchoring clips on INJECTO®

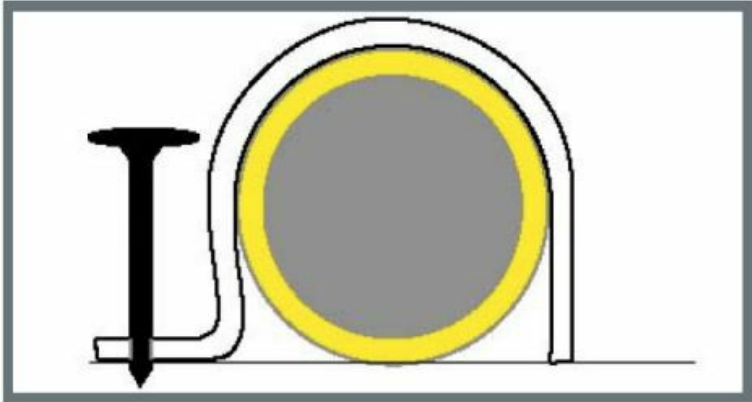


Figure 5. Nailing anchor clips

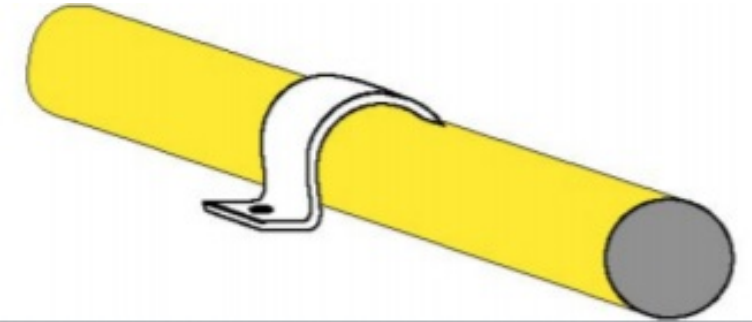


Figure 6. Placement of anchor clips

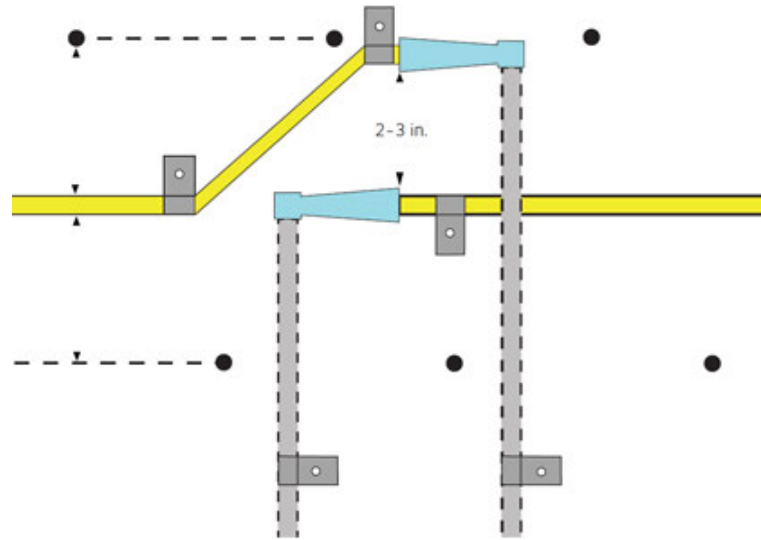


Figure 7. End and beginning of INJECTO® Tube lengths

The blue trumpets provide a connection between the yellow INJECTO® Tube and the clear packer tubing. Trumpets on adjacent runs should be installed with the wide ends of the trumpets (where the yellow INJECTO® Tube is attached) in line with each other and the two trumpets separated by 2-3 inches (see Figure 7). This will help avoid cross contamination of the yellow INJECTO® Tubes during the grouting operation.

Always terminate the yellow INJECTO® Tube into a trumpet and allow for a minimum of 2-1/2" of concrete cover. **Do not run the yellow INJECTO® Tube outside the formwork or outside of the concrete pour.**

Attach the clear packer tubing over the barbed end of the trumpets. Then cut the appropriate length of packer tubing as required to reach a formholder packer or to extend outside the formwork. The clear packer tubing should be secured to the rebar with tie wire to prevent movement during the pour.

The formholder packers can be either nailed to wooden formwork or attached to the rebar with steel tie wire if metal forms are used. If formholder packers are used, attach the clear packer tubing directly to them. If the clear packer tubing is being run outside the formwork, protect the open ends with a plastic cap or tape and take measures to protect them from damage during formwork, installation and stripping.

The INJECTO® System is ideal for unique and problem details such as pipe penetrations and attachment to conventional PVC waterstops that may encounter very high head pressures (see Figures 8 and 9).

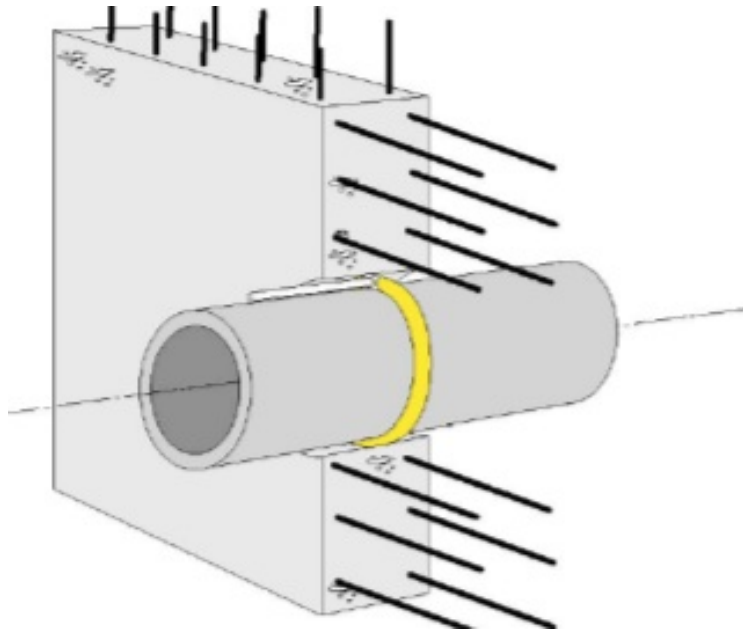


Figure 8. Pipe Sealing

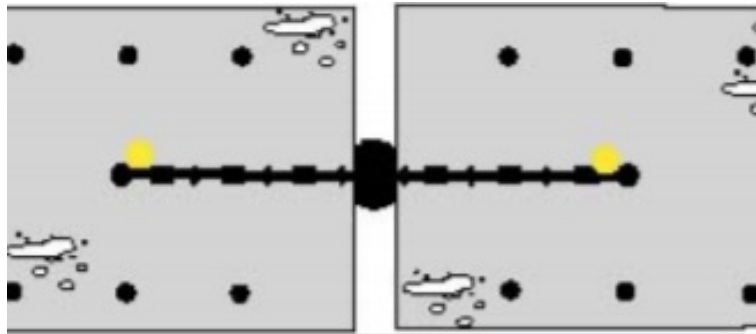


Figure 9. PVC Waterstop

CAUTIONS

- 1.** The yellow INJECTO[®] Tube must be installed in direct contact with the joint over its full length, to allow proper and complete distribution of the injection resin. If the concrete is not smooth enough to allow full contact, use SWELLSEAL[®] WA to create a smooth surface. Press the INJECTO[®] Tube into the SWELLSEAL[®] WA.
- 2.** Do not cross the yellow INJECTO[®] Tubes. Yellow should never touch yellow or cross contamination could occur during the grouting operation.
- 3.** Ends and beginnings of yellow INJECTO[®] Tube lengths should have trumpets spaced 2-3 inches apart (see Figures 4 and 8). This is to prevent cross-contamination during the resin injection process.
- 4.** Concrete coverage must be a minimum of 2 ½" on all sides. After concrete has cured for the recommended 28 days, any water infiltrating into the joint will be collected by the system and appear through the clear packer tubing. The tubing should either protrude out of the concrete at easily accessible places or be connected to a formholder packer.

The INJECTO[®] system is designed to provide a delivery system for GCP waterproofing resins, which are injected into the structure in accordance with the instructions found in the selected injection resins technical data sheets. Consult with GCP Technical Services for assistance in selecting the appropriate chemical grout for each condition.

Health and Safety

Read and understand the product label and Safety Data Sheet for each system component before use. All users should acquaint themselves with this information prior to working with the material. Carefully read detailed precaution statements on the product labels and SDS before use. SDS's can be obtained from our web site at gcpat.com or by contacting GCP toll free at 1-866-333-3SBM (3726).

Limitations

The INJECTO® waterstop system must be installed by an Approved GCP Applicator. In accordance with the INJECTO® Manual, Concrete cover must be a minimum of 2 ½" on all sides.

gcpat.com | North America Customer Service: 1-866-333-3726

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

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GCP0083 WS-001-0617 INJECTO

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Last Updated: 2022-12-06

gcpat.com/solutions/products/waterstops/injecto-data-sheet

DE NEEF® INJECTO® PURE Data Sheet

Product Description

DE NEEF® INJECTO® PURE is an ultra low viscosity hydrophobic polyurethane designed to be used with INJECTO® Grout Tube for sealing construction joints. DE NEEF® INJECTO® PURE grout expands on contact with water and quickly cures to a tough, flexible foam that is resistant to most organic solvents, mild acids, alkali, petroleum and micro-organisms.

Product Advantages

- Super low viscosity for hairline cracks
- Free Foam Expansion up to 18 times
- Contains no volatile solvents
- Single Component
- Will not dilute in water
- Controlled reaction time
- Tough foam with flexibility
- Improved low temperature performance
- DE NEEF® Flex Cat PURE liquid to -40 °F

Product Applications

- Repairing existing leaky joints
- Waterstop for new concrete structures
- Injection through these grout tubes to form a flexible waterstop in concrete joints:
 - DE NEEF® INJECTO® Tube
 - SIS INJECTO® Tube

Packaging & Handling

DE NEEF® INJECTO® PURE	DE NEEF® FLEX CAT PURE
5 gallon metal pail	25 fl. oz. in 1 qt. metal cans
50 gallon metal drum	

DE NEEF® INJECTO® PURE is sealed under dry nitrogen because it is sensitive to moisture, and should be stored in original containers in a dry area. Storage temperature must be between 40°F and 90°F. Once the packaging has been opened, the useful life of the material is greatly reduced and should be used as soon as possible.

Shelf life: 2 years.

Limitations

Low temperatures will significantly affect viscosity. DE NEEF® INJECTO® PRe is not designed for void filling and must be used in compression. If site temperatures are extremely low, heat bands or heated water baths may be used on the pails before and during installation to maintain the product's temperature. Avoid splashing water into open containers, as the material is water activated. Avoid exceeding 90°F when warming.

CAUTION: pH NOTICE. Water used to activate PRe Grouts must be in the pH range of 3-10 for optimum foam quality.

Reaction Times

T	% CAT	END REACTION	FOAM FACTOR
40°F	2	6'30"	14V
	5	3'25"	16V
60°F	2	5'10"	16V
	5	2'35"	16V
77°F	2	4'30"	16V
	5	2'20"	17V
86°F	2	4'20"	16V
	5	2'00"	17V
95°F	2	3'35"	17V
	5	1'45"	18V

Installation Guidelines

Warning: DE NEEF® INJECTO® PRe must be used with DE NEEF® Flex Cat PRe. Consult the Technical Data Sheets and SDS before using.

Installation Instructions

For detailed installation instructions refer to the DE NEEF® technical bulletin for your application.

Catalyst: Shake catalyst can 2-3 minutes. Pour the desired amount of DE NEEF® INJECTO® PRe into a clean dry pail. Measure 1% Flex Cat PRe and pour it into the pail. Stir until adequately mixed. Exceeding the recommended amount of catalyst may adversely affect the reaction and quality of the cured foam. (1 catalyst can capful=0.5 oz; 1.3 oz/gal resin = 1%)

Injection: Injectable tubes should be adequately flushed with water prior to the injection of grout. During injection the grout will follow the path of least resistance. When the material has stopped penetrating it will continue to expand against the limits of the confined space and compress within itself, forming a dense, closed cell foam. See DE NEEF® INJECTO® Grout Tube Installation procedures for more detail.

Extreme conditions: For application procedures in extreme temperatures and specific environments or equipment recommendations call the GCP Applied Technologies Technical Service Department.

Cleaning: Clean all tools and equipment which have been in contact with the resin with DE NEEF® Washing Agent before resin has cured. Products should be disposed of according to local, state, and federal laws.

Health and Safety

Always use protective clothing, gloves and goggles consistent with OSHA regulations. Avoid eye and skin contact. Do not ingest. Refer to SDS. For emergencies, call CHEMTREC 1-800-424-9300.

Properties

DE NEEF® INJECTO® PURE RESIN		
Solids	100%	ASTM D2369
Viscosity	200 cps at 77°F	ASTM D2196
Color	Pale yellow	
Density	1.02 g/cm ³	ASTM D4659
Flashpoint	>270°F	ASTM D93
Corrosiveness	Non-corrosive	
DE NEEF® FLEX CAT PURE		
Viscosity	15 cps at 77°F	ASTM D2196
Color	Cleaeer to pale gray	
Flashpoint	221°F	ASTM D93
DE NEEF® INJECTO® PURE CURED		
Density confined	1.00 g/cm ³	ASTM D3574
Density free	about 3 PCF	ASTM D3574
Tensile strength	>174 psi	ASTM D3574
Elongation %	100	ASTM D3574

gcpat.com | North America Customer Service: 1-866-333-3SBM (3726).

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Last Updated: 2022-12-08

gcpat.com/solutions/products/de-neef-waterproofing-injection-solutions/de-neef-injecto-pure-data-sheet

Safety Data Sheet

Printing date 02/06/2017

Version Number 1.4

Reviewed on 02/06/2017

1 Identification

Product identifier

Trade name: *Injecto® PRe*

SDS ID Number: 1802

Relevant identified uses of the substance or mixture, and uses advised against

Waterproofing.
Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Label elements:

Hazard pictograms



GHS07 GHS08

Danger

Hazard statements

Harmful if inhaled.

Safety Data Sheet

Printing date 02/06/2017

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Reviewed on 02/06/2017

Trade name: *Injecto® PRe*

(Cont. from page 1)

Causes skin irritation.
 Causes serious eye irritation.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.
 Suspected of causing cancer.
 May cause respiratory irritation.
 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

[In case of inadequate ventilation] wear respiratory protection.

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

NFPA ratings (scale 0 - 4)

Health = 1

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2

Flammability = 1

Reactivity = 0

Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****Chemical characterization: Mixture****Description:** Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.**Hazardous components:**

26447-40-5	Methylenediphenyl diisocyanate, mixture of isomers	20-25%
101-68-8	Diphenylmethane-4,4'-di-isocyanate	1.0-2.0%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.**4 First-aid measures****Description of first aid measures****General information:** Get medical advice/attention if you feel unwell.**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

(Cont. on page 3)

USGHS

Trade name: *Injecto® PRe*

(Cont. from page 2)

After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

After swallowing:

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

Information for doctor:

Most important symptoms and effects, both acute and delayed Irritating to eyes.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:**Precautions for safe handling**

Open and handle receptacle with care.

Prevent formation of aerosols.

Avoid contact with skin.

Avoid contact with eyes.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities**Storage:**

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep receptacle tightly sealed.

(Cont. on page 4)

USGHS

Trade name: *Injecto® PRe*

(Cont. from page 3)

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

101-68-8 Diphenylmethane-4,4'-di-isocyanate

PEL (USA)	Ceiling limit value: 0.2 mg/m ³ , 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m ³ , 0.005 ppm

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Eye protection:



Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.



A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

Protective work clothing

Use personal protective equipment as required.

Take off contaminated clothing.

Trade name: *Injecto® PRe*

(Cont. from page 4)

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

pH-value (~): Not determined.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100 °C (> 212 °F)
Flash point:	> 100 °C (> 212 °F)

Flammability (solid, gaseous): Not applicable.

Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.

Vapor pressure:	Not determined.
Density: (~)	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with Water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.

Other information No further relevant information available.

10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions Reacts with acids, oxidising agents.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

Additional information: See section 7 for information on handling, storage and conditions to be avoided.

Safety Data Sheet

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Trade name: *Injecto® PRe*

(Cont. from page 5)

11 Toxicological information**Delayed and immediate effects and chronic effects from short or long term exposure**

May cause damage to organs through prolonged or repeated exposure.

Information on toxicological effects**Acute toxicity:****LD/LC50 values relevant for classification:****101-68-8 Diphenylmethane-4,4'-di-isocyanate**

Oral	LD50	> 10000 mg/kg (rat)
Dermal	LD50	> 9400 mg/kg (rabbit)
Inhalation	LC50, 4h	0.49 mg/l (rat)
	LC50	0.00224 mg/m ³ (rat)

Primary irritant effect:**on the skin:** Causes skin irritation.**on the eye:** Causes serious eye irritation.**inhalation:**

Harmful if inhaled.

Causes damage to organs.

Ingestion: May cause damage to organs through prolonged or repeated exposure.**Sensitization:**

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

May cause an allergic skin reaction.

Additional toxicological information: Suspected of causing cancer.**Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:**
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

101-68-8 | Diphenylmethane-4,4'-di-isocyanate

3

NTP (National Toxicology Program)**K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

(Cont. on page 7)

USGHS

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Reviewed on 02/06/2017

Trade name: *Injecto® PRe*

(Cont. from page 6)

Other adverse effects No further relevant information available.**13 Disposal considerations****Disposal methods:** Comply with Federal, State and local regulations.**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.**14 Transport information****UN-Number**

DOT, IMDG, IATA

Not applicable.

UN proper shipping name

DOT, IMDG, IATA

Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA

Class

Not applicable.

Packing group

DOT, IMDG, IATA

Not applicable.

Environmental hazards:**Marine pollutant:**

No

Special precautions for user

Not applicable.

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.**DOT****Remarks:**

Not Regulated.

UN "Model Regulation":

Not applicable.

15 Regulatory information**SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

101-68-8 | Diphenylmethane-4,4'-di-isocyanate

1.8%

SARA Section 312/Tier I & II Hazard Categories:

Health Hazard - Carcinogenicity

Health Hazard - Acute toxicity (any route of exposure)

Health Hazard - Skin Corrosion or Irritation

Health Hazard - Respiratory or Skin Sensitization

Health Hazard - Serious eye damage or eye irritation

Health Hazard - Specific target organ toxicity (single or repeated exposure)

(Cont. on page 8)

USGHS

Safety Data Sheet

Printing date 02/06/2017

Version Number 1.4

Reviewed on 02/06/2017

Trade name: *Injecto® PRe*

(Cont. from page 7)

North America Chemical Inventory Status**TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

105-76-0 | dibutyl maleate

Modified MDI

California Proposition 65**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenicity Categories**EPA (Environmental Protection Agency)**

101-68-8 | Diphenylmethane-4,4'-di-isocyanate

D, CBD

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)**Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.

If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies

62 Whittemore Avenue

Cambridge, MA 02140 USA

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414

Other Information:

In the previous SDS, version control was by Issue Number and Date. With the change to automated SDS creation software, version control is now based on printing and review dates which appear at the top of each page. Also consequent on this change, amendments have been made in all Sections of this SDS. In future updates to SDS, amended sections will be indicated by an asterisk (*) in the left-hand margin.

Date of preparation / last revision 02/06/2017 / 1.3**The first date of preparation** 05/27/2015**Number of revision times and the latest revision date** 1.4 / 02/06/2017

USGHS

1 Identification

Product identifier

Trade name: *Flex Cat PRe*

SDS ID Number: 2457

Relevant identified uses of the substance or mixture, and uses advised against

Waterproofing.
Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.

Label elements:

Hazard pictograms



GHS05 GHS07

Danger

Hazard statements

Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.
Wash thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Wash with plenty of water.

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IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If skin irritation occurs: Get medical advice/attention.
Immediately call a POISON CENTER/doctor.

Inhalation: Causes respiratory tract irritation.

NEPA ratings (scale 0 - 4)



Health = 2
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 2
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:

2212-32-0	2-[2-(dimethylamino)ethyl]methylaminoethanol	20-25%
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Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.

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Trade name: *Flex Cat PURE*

(Cont. from page 2)

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

Risk of serious damage to eyes.

Prevent formation of aerosols.

Avoid contact with skin.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for

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the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Eye protection:



Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.



A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Color:	Grey / Black.
Odor:	Amine-like
Odor threshold:	Not determined.

pH-value (~): Not determined.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 180 °C (> 356 °F)
Flash point:	> 100 °C (> 212 °F)

Flammability (solid, gaseous): Not applicable.

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.

Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	0.9 g/cm ³ (7.511 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined.

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Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	No further relevant information available.

10 Stability and reactivity**Reactivity** Stable under normal conditions.**Chemical stability****Thermal decomposition:** No decomposition if used according to specifications.**Possibility of hazardous reactions** Reacts with acids, oxidising agents.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.**11 Toxicological information****Information on toxicological effects****Acute toxicity:****Primary irritant effect:****on the skin:** Causes skin irritation.**on the eye:** Causes serious eye damage.**inhalation:** Causes damage to organs.**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:**
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

None of the ingredients is listed.

NTP (National Toxicology Program)**K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.

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Trade name: *Flex Cat PURE*

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Additional ecological information:**General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Disposal methods:**

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:**Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.**14 Transport information****UN-Number**

DOT, IMDG, IATA

Not applicable.

UN proper shipping name

DOT, IMDG, IATA

Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA

Class

Not applicable.

Packing group

DOT, IMDG, IATA

Not applicable.

Environmental hazards:**Marine pollutant:**

No

Special precautions for user

Not applicable.

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.

DOT

Remarks:

Not Regulated.

UN "Model Regulation":

Not applicable.

15 Regulatory information**SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

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Trade name: *Flex Cat PRe*

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Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:

Health Hazard - Skin Corrosion or Irritation

Health Hazard - Serious eye damage or eye irritation

Health Hazard - Specific target organ toxicity (single or repeated exposure)

North America Chemical Inventory Status**TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

6846-50-0 | 2,2-dimethyl-1-(methylethyl)-1,3-propanediyl bis(2-methylpropanoate)

Proprietary polyalkyleneoxidemethylsiloxane copolymer - NJTSRN 801416085

California Proposition 65**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenicity Categories**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)**Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

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None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.

If no g/L value is provided this product is not subject to above standard.

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Date of preparation / last revision 03/24/2017 / -**The first date of preparation** 05/01/2015**Number of revision times and the latest revision date** 1.0 / 03/24/2017

USGHS

INJECTO[®] Permeable Grout Tube Waterstop System

Five Year Material Warranty

WARRANTY NO. _____

NAME OF BUILDING _____

LOCATION OF BUILDING _____

NAME OF OWNER _____

CONTRACTOR _____

PRODUCT INJECTO[®] Permeable Grout Tube Waterstop

TOTAL AREA (LF) _____

DATE OF COMPLETED INSTALLATION _____

GCP Applied Technologies Inc. (“GCP”) hereby warrants that for a period of Five (5) years from the date of completion of installation identified above will provide replacement material or refund the purchase price of the PRODUCT (as identified above), if found defective in material or workmanship in manufacturing.

This warranty does not apply to any PRODUCT unless installed and maintained in conformance with the printed instructions of GCP from time to time in effect. Further, this warranty does not cover damage caused by abuse or abnormal use of the PRODUCT, acts of God, inadequate or faulty design of the building or damage to the building due to external factors, nor does it cover repairs or installation made by other persons not approved by GCP.

THE FOREGOING WARRANTY AND REMEDY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES AND REMEDIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESSED OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS. THE OWNER WAIVES ANY AND ALL OTHER RIGHTS AND REMEDIES, AS WELL AS ANY AND ALL OTHER CLAIMS, ACTIONS, AND DEMANDS RELATING TO USE OF THE PRODUCTS. GCP SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

GCP Applied Technologies Inc.

By _____ Date _____